



U.S. Energy Information
Administration

Petroleum Supply Monthly

with data for December 2021

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Preface

The Petroleum Supply Monthly (PSM) is the monthly component of a series of three publications produced by the Office of Petroleum and Biofuels Statistics of the U.S. Energy Information Administration (EIA). The other two components are the Weekly Petroleum Status Report (WPSR) and the Petroleum Supply Annual (PSA). Together these publications present comprehensive petroleum and biofuel supply data on a weekly, monthly and annual basis.

Data presented in the PSM describe the supply and disposition of petroleum products in the United States and major U.S. geographic regions. The data series describe production, imports and exports, inter-Petroleum Administration for Defense (PAD) District movements, and inventories by the primary suppliers of petroleum products in the United States (50 States and the District of Columbia). The reporting universe includes those petroleum sectors in primary supply. Included are: petroleum refiners, motor gasoline blenders, oxygenate producers, operators of natural gas processing plants and fractionators, inter-PAD District transporters, importers, and major inventory holders of crude oil, petroleum products, and biofuels. When aggregated, the data reported by these sectors approximately represent the consumption of petroleum products in the United States.

Scope of data

The PSM presents statistics for the most current month available as well as year-to-date. In most cases, the statistics are presented for several geographic areas - the United States (50 States and the District of Columbia), five PAD Districts, and 12 Refining Districts. At the U.S. and PAD District levels, the total volume and the daily rate of activities are presented. The statistics are developed from monthly survey forms submitted by respondents to the EIA and from data provided from other sources including federal and state agencies.

Sections

- U.S. supply and disposition of crude oil, petroleum products, and biofuels
- Regional supply and disposition of crude oil, petroleum products, and biofuels
- Crude oil supply and disposition and production by state
- Natural Gas Processing
- Refinery Operations
- Imports of residual fuel oil by state of entry
- Imports by PADD
- Imports by country of origin
- Exports
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- Stocks
- Movements of crude oil, petroleum products, and biofuels

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Table 1. U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, December 2021
(Thousand Barrels)

Commodity	Supply					Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³	
Crude Oil⁴	358,588	--	--	199,068	17,513	-20,337	488,483	107,023	0	1,015,102
Hydrocarbon Gas Liquids	177,712	-725	12,042	6,547	--	-27,154	24,684	72,093	125,953	188,360
Natural Gas Liquids	177,712	-725	2,965	6,047	--	-26,043	24,684	72,093	115,265	186,272
Ethane	72,136	--	176	--	--	-6,615	--	13,350	65,577	59,821
Propane	56,489	--	9,129	4,858	--	-7,970	--	42,363	36,083	62,077
Normal Butane	16,773	--	-6,034	1,029	--	-8,311	11,176	10,236	-1,333	34,017
Isobutane	12,966	--	-306	155	--	-2,112	6,619	60	8,248	9,674
Natural Gasoline	19,348	-725	--	5	--	-1,035	6,889	6,083	6,690	20,683
Refinery Olefins	--	--	9,077	500	--	-1,111	--	--	10,688	2,088
Ethylene	--	--	29	--	--	0	--	--	29	0
Propylene	--	--	9,444	441	--	-144	--	--	10,029	1,397
Normal Butylene	--	--	-363	59	--	-899	--	--	595	646
Isobutylene	--	--	-33	--	--	-68	--	--	35	45
Other Liquids	--	39,752	--	32,825	2,351	6,420	44,184	21,521	2,803	323,416
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	39,752	--	1,020	5,830	2,259	36,546	3,018	4,780	28,646
Hydrogen	--	--	--	--	7,441	--	7,441	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	39,752	--	1,016	-1,618	2,267	29,086	3,018	4,780	28,630
Fuel Ethanol ⁵	--	33,118	--	--	-1,618	1,563	27,122	2,814	0	22,011
Renewable Fuels Except Fuel Ethanol	--	6,635	--	1,016	--	703	1,964	204	4,780	6,620
Other Hydrocarbons	--	--	--	4	7	-8	19	--	0	16
Unfinished Oils	--	--	--	14,732	--	-7,782	10,147	14,313	-1,946	80,251
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	-1	--	17,073	-3,479	11,932	-2,529	4,190	0	214,494
Reformulated	--	-1	--	8,599	5,841	2,140	12,296	3	0	47,357
Conventional	--	0	--	8,474	-9,319	9,792	-14,825	4,188	0	167,137
Aviation Gasoline Blend. Comp.	--	--	--	--	--	11	20	--	-31	25
Finished Petroleum Products	--	119	578,890	26,788	5,097	-1,571	--	97,524	514,941	260,632
Finished Motor Gasoline	--	113	299,403	1,678	5,097	-302	--	29,161	277,432	17,743
Reformulated	--	--	92,250	--	-6,257	2	--	--	85,991	22
Conventional	--	113	207,153	1,678	11,354	-304	--	29,161	191,441	17,721
Finished Aviation Gasoline	--	--	397	46	--	113	--	--	330	1,251
Kerosene-Type Jet Fuel	--	7	46,876	4,437	--	-929	--	4,984	47,265	35,798
Kerosene	--	0	302	6	--	-446	--	736	18	2,245
Distillate Fuel Oil ⁵	--	-1	152,586	9,038	--	-1,681	--	41,434	121,870	129,928
15 ppm sulfur and under	--	-1	146,635	8,818	--	205	--	34,147	121,100	120,179
Greater than 15 ppm to 500 ppm sulfur	--	0	2,173	--	--	-405	--	2,310	268	2,785
Greater than 500 ppm sulfur	--	0	3,778	220	--	-1,481	--	4,977	502	6,964
Residual Fuel Oil	--	--	5,962	6,482	--	-2,233	--	1,803	12,874	25,389
Less than 0.31 percent sulfur	--	--	1,108	933	--	-374	--	NA	NA	2,540
0.31 to 1.00 percent sulfur	--	--	2,841	922	--	-422	--	NA	NA	6,312
Greater than 1.00 percent sulfur	--	--	2,013	4,627	--	-1,437	--	NA	NA	16,537
Petrochemical Feedstocks	--	--	8,432	789	--	-429	--	--	9,650	2,540
Naphtha for Petro. Feed. Use	--	--	5,567	661	--	-222	--	--	6,450	1,882
Other Oils for Petro. Feed. Use	--	--	2,865	128	--	-207	--	--	3,200	658
Special Naphthas	--	--	862	387	--	-53	--	--	1,302	1,048
Lubricants	--	--	5,295	1,240	--	542	--	3,043	2,950	12,834
Waxes	--	--	159	278	--	13	--	170	254	549
Petroleum Coke	--	--	25,621	282	--	396	--	15,509	9,998	6,820
Marketable	--	--	19,133	282	--	396	--	15,509	3,510	6,820
Catalyst	--	--	6,488	--	--	--	--	--	6,488	--
Asphalt and Road Oil	--	--	9,394	2,124	--	3,469	--	652	7,397	23,867
Still Gas	--	--	20,761	--	--	--	--	--	20,761	--
Miscellaneous Products	--	--	2,840	1	--	-31	--	32	2,840	621
Total	536,300	39,145	590,932	265,228	24,961	-42,642	557,351	298,161	643,697	1,787,511

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁴ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁵ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report,"

EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene."

Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

Table 2. U.S. Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-December 2021
(Thousand Barrels)

Commodity	Supply					Disposition				
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³	Ending Stocks
Crude Oil⁴	4,082,478	--	--	2,230,000	195,931	-108,241	5,529,012	1,087,638	0	1,015,102
Hydrocarbon Gas Liquids	1,970,031	-7,941	225,172	63,125	--	-40,797	198,527	848,015	1,244,642	188,360
Natural Gas Liquids	1,970,031	-7,941	120,757	57,128	--	-40,636	198,527	848,015	1,134,069	186,272
Ethane	781,560	--	1,505	--	--	-9,779	--	147,584	645,260	59,821
Propane	632,906	--	101,344	41,465	--	-8,358	--	477,616	306,457	62,077
Normal Butane	180,543	--	20,998	13,237	--	-7,626	66,056	149,693	6,655	34,017
Isobutane	153,863	--	-3,090	2,358	--	-2,667	71,652	1,181	82,965	9,674
Natural Gasoline	221,159	-7,941	--	68	--	-12,206	60,819	71,941	92,732	20,683
Refinery Olefins	--	--	104,415	5,997	--	-161	--	--	110,573	2,088
Ethylene	--	--	277	--	--	0	--	--	277	0
Propylene	--	--	106,126	5,243	--	-90	--	--	111,459	1,397
Normal Butylene	--	--	-1,831	734	--	-74	--	--	-1,023	646
Isobutylene	--	--	-157	20	--	3	--	--	-140	45
Other Liquids	--	417,836	--	473,518	90,705	-2,598	728,585	208,763	47,309	323,416
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	417,844	--	15,724	66,667	-1,251	421,149	34,145	46,193	28,646
Hydrogen	--	--	--	--	76,782	--	76,782	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	417,844	--	15,646	-10,255	-1,254	344,152	34,145	46,193	28,630
Fuel Ethanol ⁵	--	357,502	--	1,447	-10,255	-2,676	321,568	29,803	0	22,011
Renewable Fuels Except Fuel Ethanol	--	60,341	--	14,199	--	1,422	22,584	4,342	46,193	6,620
Other Hydrocarbons	--	--	--	78	140	3	215	--	0	16
Unfinished Oils	--	--	--	203,244	--	2,044	59,761	140,157	1,282	80,251
Motor Gasoline Blend.Comp. (MGB) ⁵	--	-8	--	254,550	24,038	-3,384	247,503	34,461	0	214,494
Reformulated	--	-8	--	80,998	74,114	-6,092	161,120	77	0	47,357
Conventional	--	0	--	173,552	-50,076	2,708	86,383	34,385	0	167,137
Aviation Gasoline Blend. Comp.	--	--	--	--	--	-6	172	--	-166	25
Finished Petroleum Products	--	1,997	6,579,160	324,267	-13,783	-43,259	--	1,006,415	5,928,485	260,632
Finished Motor Gasoline	--	1,854	3,475,439	39,640	-13,783	-7,567	--	300,499	3,210,217	17,743
Reformulated	--	--	1,077,947	--	-63,956	-26	--	--	1,014,017	22
Conventional	--	1,854	2,397,492	39,640	50,172	-7,541	--	300,499	2,196,200	17,721
Finished Aviation Gasoline	--	--	3,924	475	--	130	--	--	4,269	1,251
Kerosene-Type Jet Fuel	--	92	478,835	57,519	--	-2,829	--	38,800	500,475	35,798
Kerosene	--	0	3,365	297	--	-415	--	2,179	1,898	2,245
Distillate Fuel Oil ⁵	--	52	1,702,072	104,851	--	-30,513	--	398,289	1,439,198	129,928
15 ppm sulfur and under	--	52	1,627,441	102,610	--	-28,396	--	334,178	1,424,321	120,179
Greater than 15 ppm to 500 ppm sulfur	--	0	35,694	1,605	--	-623	--	27,692	10,229	2,785
Greater than 500 ppm sulfur	--	0	38,937	636	--	-1,494	--	36,418	4,649	6,964
Residual Fuel Oil	--	--	75,828	67,903	--	-4,845	--	34,460	114,116	25,389
Less than 0.31 percent sulfur	--	--	11,456	2,921	--	-546	--	NA	NA	2,540
0.31 to 1.00 percent sulfur	--	--	30,549	12,041	--	-610	--	NA	NA	6,312
Greater than 1.00 percent sulfur	--	--	33,823	52,941	--	-3,689	--	NA	NA	16,537
Petrochemical Feedstocks	--	--	98,339	6,755	--	-348	--	--	105,442	2,540
Naphtha for Petro. Feed. Use	--	--	62,524	5,489	--	-194	--	--	68,207	1,882
Other Oils for Petro. Feed. Use	--	--	35,815	1,266	--	-154	--	--	37,235	658
Special Naphthas	--	--	11,465	3,903	--	-12	--	--	15,380	1,048
Lubricants	--	--	61,224	16,846	--	3,134	--	37,141	37,795	12,834
Waxes	--	--	1,660	2,284	--	-6	--	1,811	2,139	549
Petroleum Coke	--	--	279,158	3,763	--	-883	--	185,450	98,354	6,820
Marketable	--	--	207,195	3,763	--	-883	--	185,450	26,391	6,820
Catalyst	--	--	71,963	--	--	--	--	--	71,963	--
Asphalt and Road Oil	--	--	123,377	20,018	--	843	--	7,382	135,170	23,867
Still Gas	--	--	234,345	--	--	--	--	--	234,345	--
Miscellaneous Products	--	--	30,129	13	--	53	--	403	29,686	621
Total	6,052,509	411,893	6,804,332	3,090,910	272,853	-194,894	6,456,124	3,150,831	7,220,435	1,787,511

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁴ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁵ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

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Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

Table 3. U.S. Daily Average Supply and Disposition of Crude Oil and Petroleum Products, December 2021
(Thousand Barrels per Day)

Commodity	Supply					Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³
Crude Oil⁴	11,567	--	--	6,422	565	-656	15,758	3,452	0
Hydrocarbon Gas Liquids	5,733	-23	388	211	--	-876	796	2,326	4,063
Natural Gas Liquids	5,733	-23	96	195	--	-840	796	2,326	3,718
Ethane	2,327	--	6	--	--	-213	--	431	2,115
Propane	1,822	--	294	157	--	-257	--	1,367	1,164
Normal Butane	541	--	-195	33	--	-268	361	330	-43
Isobutane	418	--	-10	5	--	-68	214	2	266
Natural Gasoline	624	-23	--	0	--	-33	222	196	216
Refinery Olefins	--	--	293	16	--	-36	--	--	345
Ethylene	--	--	1	--	--	0	--	--	1
Propylene	--	--	305	14	--	-5	--	--	324
Normal Butylene	--	--	-12	2	--	-29	--	--	19
Isobutylene	--	--	-1	--	--	-2	--	--	1
Other Liquids	--	1,282	--	1,059	76	207	1,425	694	90
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,282	--	33	188	73	1,179	97	154
Hydrogen	--	--	--	--	240	--	240	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	1,282	--	33	-52	73	938	97	154
Fuel Ethanol ⁵	--	1,068	--	--	-52	50	875	91	0
Renewable Fuels Except Fuel Ethanol	--	214	--	33	--	23	63	7	154
Other Hydrocarbons	--	--	--	0	0	0	1	--	0
Unfinished Oils	--	--	--	475	--	-251	327	462	-63
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	0	--	551	-112	385	-82	135	0
Reformulated	--	0	--	277	188	69	397	0	0
Conventional	--	0	--	273	-301	316	-478	135	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	1	--	-1
Finished Petroleum Products	--	4	18,674	864	164	-51	--	3,146	16,611
Finished Motor Gasoline	--	4	9,658	54	164	-10	--	941	8,949
Reformulated	--	--	2,976	--	-202	0	--	--	2,774
Conventional	--	4	6,682	54	366	-10	--	941	6,176
Finished Aviation Gasoline	--	--	13	1	--	4	--	--	11
Kerosene-Type Jet Fuel	--	0	1,512	143	--	-30	--	161	1,525
Kerosene	--	0	10	0	--	-14	--	24	1
Distillate Fuel Oil ⁵	--	0	4,922	292	--	-54	--	1,337	3,931
15 ppm sulfur and under	--	0	4,730	284	--	7	--	1,102	3,906
Greater than 15 ppm to 500 ppm sulfur	--	0	70	--	--	-13	--	75	9
Greater than 500 ppm sulfur	--	0	122	7	--	-48	--	161	16
Residual Fuel Oil	--	--	192	209	--	-72	--	58	415
Less than 0.31 percent sulfur	--	--	36	30	--	-12	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	92	30	--	-14	--	NA	NA
Greater than 1.00 percent sulfur	--	--	65	149	--	-46	--	NA	NA
Petrochemical Feedstocks	--	--	272	25	--	-14	--	--	311
Naphtha for Petro. Feed. Use	--	--	180	21	--	-7	--	--	208
Other Oils for Petro. Feed. Use	--	--	92	4	--	-7	--	--	103
Special Naphthas	--	--	28	12	--	-2	--	--	42
Lubricants	--	--	171	40	--	17	--	98	95
Waxes	--	--	5	9	--	0	--	5	8
Petroleum Coke	--	--	826	9	--	13	--	500	323
Marketable	--	--	617	9	--	13	--	500	113
Catalyst	--	--	209	--	--	--	--	--	209
Asphalt and Road Oil	--	--	303	69	--	112	--	21	239
Still Gas	--	--	670	--	--	--	--	--	670
Miscellaneous Products	--	--	92	0	--	-1	--	1	92
Total	17,300	1,263	19,062	8,556	805	-1,376	17,979	9,618	20,764

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁴ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁵ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isocane, and Isocetene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

Table 4. U.S. Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-December 2021
(Thousand Barrels per Day)

Commodity	Supply					Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³
Crude Oil⁴	11,185	--	--	6,110	537	-297	15,148	2,980	0
Hydrocarbon Gas Liquids	5,397	-22	617	173	--	-112	544	2,323	3,410
Natural Gas Liquids	5,397	-22	331	157	--	-111	544	2,323	3,107
Ethane	2,141	--	4	--	--	-27	--	404	1,768
Propane	1,734	--	278	114	--	-23	--	1,309	840
Normal Butane	495	--	58	36	--	-21	181	410	18
Isobutane	422	--	-8	6	--	-7	196	3	227
Natural Gasoline	606	-22	--	0	--	-33	167	197	254
Refinery Olefins	--	--	286	16	--	0	--	--	303
Ethylene	--	--	1	--	--	0	--	--	1
Propylene	--	--	291	14	--	0	--	--	305
Normal Butylene	--	--	-5	2	--	0	--	--	-3
Isobutylene	--	--	0	0	--	0	--	--	0
Other Liquids	--	1,145	--	1,297	249	-7	1,996	572	130
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,145	--	43	183	-3	1,154	94	127
Hydrogen	--	--	--	--	210	--	210	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	1,145	--	43	-28	-3	943	94	127
Fuel Ethanol ⁵	--	979	--	4	-28	-7	881	82	0
Renewable Fuels Except Fuel Ethanol	--	165	--	39	--	4	62	12	127
Other Hydrocarbons	--	--	--	0	0	0	1	--	0
Unfinished Oils	--	--	--	557	--	6	164	384	4
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	0	--	697	66	-9	678	94	0
Reformulated	--	0	--	222	203	-17	441	0	0
Conventional	--	0	--	475	-137	7	237	94	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	5	18,025	888	-38	-119	--	2,757	16,242
Finished Motor Gasoline	--	5	9,522	109	-38	-21	--	823	8,795
Reformulated	--	--	2,953	--	-175	0	--	--	2,778
Conventional	--	5	6,568	109	137	-21	--	823	6,017
Finished Aviation Gasoline	--	--	11	1	--	0	--	--	12
Kerosene-Type Jet Fuel	--	0	1,312	158	--	-8	--	106	1,371
Kerosene	--	0	9	1	--	-1	--	6	5
Distillate Fuel Oil ⁵	--	0	4,663	287	--	-84	--	1,091	3,943
15 ppm sulfur and under	--	0	4,459	281	--	-78	--	916	3,902
Greater than 15 ppm to 500 ppm sulfur	--	0	98	4	--	-2	--	76	28
Greater than 500 ppm sulfur	--	0	107	2	--	-4	--	100	13
Residual Fuel Oil	--	--	208	186	--	-13	--	94	313
Less than 0.31 percent sulfur	--	--	31	8	--	-1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	84	33	--	-2	--	NA	NA
Greater than 1.00 percent sulfur	--	--	93	145	--	-10	--	NA	NA
Petrochemical Feedstocks	--	--	269	19	--	-1	--	--	289
Naphtha for Petro. Feed. Use	--	--	171	15	--	-1	--	--	187
Other Oils for Petro. Feed. Use	--	--	98	3	--	0	--	--	102
Special Naphthas	--	--	31	11	--	0	--	--	42
Lubricants	--	--	168	46	--	9	--	102	104
Waxes	--	--	5	6	--	0	--	5	6
Petroleum Coke	--	--	765	10	--	-2	--	508	269
Marketable	--	--	568	10	--	-2	--	508	72
Catalyst	--	--	197	--	--	--	--	--	197
Asphalt and Road Oil	--	--	338	55	--	2	--	20	370
Still Gas	--	--	642	--	--	--	--	--	642
Miscellaneous Products	--	--	83	0	--	0	--	1	81
Total	16,582	1,128	18,642	8,468	748	-534	17,688	8,632	19,782

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁴ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁵ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isocane, and Isocane."

Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

Table 5. PAD District 1 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, December 2021
(Thousand Barrels)

Commodity	Supply						Disposition				
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	Ending Stocks
Crude Oil	1,959	--	--	20,643	2,487	-1,652	-23	22,725	735	0	7,654
Hydrocarbon Gas Liquids	19,462	-10	288	2,047	2,518	--	-1,842	1,565	5,726	18,856	10,214
Natural Gas Liquids	19,462	-10	-132	1,715	2,117	--	-1,736	1,565	5,726	17,597	9,955
Ethane	7,706	--	--	--	-5,111	--	-374	--	2,116	853	684
Propane	6,817	--	417	1,545	6,318	--	-1,564	--	3,237	13,424	7,521
Normal Butane	2,151	--	-520	112	1,502	--	139	1,149	295	1,662	1,353
Isobutane	880	--	-29	58	-307	--	33	127	1	441	136
Natural Gasoline	1,908	-10	--	--	-285	--	30	289	77	1,216	261
Refinery Olefins	--	--	420	332	401	--	-106	--	--	1,259	259
Ethylene	--	--	19	--	--	--	--	--	--	19	--
Propylene	--	--	426	332	401	--	-11	--	--	1,170	146
Normal Butylene	--	--	-37	--	--	--	-37	--	--	0	84
Isobutylene	--	--	12	--	--	--	-58	--	--	70	29
Other Liquids	--	581	--	16,812	64,850	6,769	5,412	83,100	270	230	69,547
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	581	--	196	10,117	385	611	10,329	135	204	7,068
Hydrogen	--	--	--	--	--	112	--	112	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	581	--	196	10,117	273	611	10,217	135	204	7,068
Fuel Ethanol	--	386	--	--	9,904	273	575	9,855	132	0	6,027
Renewable Fuels Except Fuel Ethanol	--	196	--	196	213	--	36	362	3	204	1,041
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	909	--	--	-450	1,313	20	26	3,572
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	15,707	54,733	6,384	5,251	71,458	115	0	58,907
Reformulated	--	--	--	8,599	7,416	1,068	2,777	14,306	0	0	19,383
Conventional	--	--	--	7,108	47,317	5,316	2,474	57,152	115	0	39,524
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	1	108,566	15,870	48,516	-6,657	299	--	2,962	163,035	70,477
Finished Motor Gasoline	--	--	95,260	1,060	5,947	-6,657	-300	--	33	95,878	2,916
Reformulated	--	--	36,774	--	--	-2,134	0	--	--	34,640	6
Conventional	--	--	58,486	1,060	5,947	-4,523	-300	--	33	61,237	2,910
Finished Aviation Gasoline	--	--	-4	19	45	--	20	--	--	40	247
Kerosene-Type Jet Fuel	--	--	2,362	2,671	12,546	--	715	--	84	16,780	9,157
Kerosene	--	--	-58	--	160	--	-414	--	1	515	1,758
Distillate Fuel Oil ⁶	--	1	6,671	8,020	27,785	--	-70	--	1,570	40,977	44,582
15 ppm sulfur and under	--	1	6,926	8,020	26,575	--	379	--	677	40,465	41,142
Greater than 15 ppm to 500 ppm sulfur	--	--	-63	--	--	--	162	--	850	-1,075	1,035
Greater than 500 ppm sulfur	--	--	-192	--	1,210	--	-611	--	42	1,587	2,405
Residual Fuel Oil	--	--	1,210	2,564	27	--	-868	--	410	4,259	4,541
Less than 0.31 percent sulfur	--	--	-20	933	--	--	4	--	NA	NA	307
0.31 to 1.00 percent sulfur	--	--	942	875	--	--	-259	--	NA	NA	1,293
Greater than 1.00 percent sulfur	--	--	288	756	27	--	-613	--	NA	NA	2,941
Petrochemical Feedstocks	--	--	--	212	--	--	--	--	--	212	--
Naphtha for Petro. Feed. Use	--	--	--	212	--	--	--	--	--	212	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	2	112	--	--	-4	--	--	118	28
Lubricants	--	--	421	148	503	--	116	--	425	531	1,495
Waxes	--	--	-15	137	--	--	-2	--	90	34	235
Petroleum Coke	--	--	690	4	419	--	--	--	228	885	--
Marketable	--	--	238	4	419	--	--	--	228	433	--
Catalyst	--	--	452	--	--	--	--	--	--	452	--
Asphalt and Road Oil	--	--	1,055	923	1,084	--	1,085	--	107	1,870	5,451
Still Gas	--	--	858	--	--	--	--	--	--	858	--
Miscellaneous Products	--	--	114	--	--	--	21	--	14	79	67
Total	21,421	572	108,854	55,372	118,372	-1,540	3,846	107,390	9,693	182,121	157,892

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isocane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 6. PAD District 1 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-December 2021
(Thousand Barrels)

Commodity	Supply						Disposition				
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	Ending Stocks
Crude Oil	26,969	--	--	200,734	29,997	-8,731	-2,212	245,401	5,780	0	7,654
Hydrocarbon Gas Liquids	231,034	-106	7,698	14,879	24,625	--	-2,110	13,113	98,735	168,392	10,214
Natural Gas Liquids	231,034	-106	2,194	11,662	20,316	--	-2,046	13,113	98,735	155,298	9,955
Ethane	88,863	--	--	--	-60,093	--	-454	--	27,168	2,056	684
Propane	82,335	--	4,961	10,363	69,791	--	-640	--	50,865	117,225	7,521
Normal Butane	25,904	--	-1,899	995	18,580	--	-651	8,632	19,635	15,964	1,353
Isobutane	10,777	--	-868	304	-4,070	--	-83	1,479	8	4,739	136
Natural Gasoline	23,155	-106	--	--	-3,892	--	-218	3,002	1,059	15,314	261
Refinery Olefins	--	--	5,504	3,217	4,309	--	-64	--	--	13,094	259
Ethylene	--	--	208	--	--	--	--	--	--	208	--
Propylene	--	--	5,011	3,217	4,309	--	1	--	--	12,536	146
Normal Butylene	--	--	-101	--	--	--	-52	--	--	-49	84
Isobutylene	--	--	386	--	--	--	-13	--	--	399	29
Other Liquids	--	6,448	--	232,866	707,393	65,280	-6,351	1,010,738	2,423	5,178	69,547
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	6,448	--	1,995	107,896	7,824	-1,524	121,364	1,820	2,503	7,068
Hydrogen	--	--	--	--	--	1,142	--	1,142	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	6,448	--	1,995	107,896	6,682	-1,524	120,222	1,820	2,503	7,068
Fuel Ethanol	--	4,214	--	--	105,956	6,682	-1,204	116,547	1,509	0	6,027
Renewable Fuels Except Fuel Ethanol	--	2,233	--	1,995	1,941	--	-320	3,675	311	2,503	1,041
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	20,493	-735	--	244	16,534	306	2,674	3,572
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	210,378	600,232	57,456	-5,071	872,840	297	0	58,907
Reformulated	--	--	--	79,790	89,667	14,586	-2,581	186,620	4	0	19,383
Conventional	--	--	--	130,588	510,565	42,869	-2,490	686,220	292	0	39,524
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	3	1,276,533	174,270	462,513	-64,138	-22,270	--	27,476	1,843,975	70,477
Finished Motor Gasoline	--	--	1,137,436	29,365	40,738	-64,138	-1,646	--	1,845	1,143,202	2,916
Reformulated	--	--	427,710	--	--	-13,324	-24	--	--	414,410	6
Conventional	--	--	709,726	29,365	40,738	-50,814	-1,622	--	1,845	728,792	2,910
Finished Aviation Gasoline	--	--	-45	145	986	--	37	--	--	1,049	247
Kerosene-Type Jet Fuel	--	--	20,471	22,705	124,456	--	-993	--	1,760	166,865	9,157
Kerosene	--	--	570	256	1,397	--	-446	--	81	2,588	1,758
Distillate Fuel Oil ⁶	--	3	68,920	91,096	270,615	--	-16,038	--	8,496	438,176	44,582
15 ppm sulfur and under	--	3	70,786	91,076	261,626	--	-15,071	--	4,202	434,360	41,142
Greater than 15 ppm to 500 ppm sulfur	--	--	142	20	9	--	-372	--	3,261	-2,718	1,035
Greater than 500 ppm sulfur	--	--	-2,008	--	8,980	--	-595	--	1,032	6,535	2,405
Residual Fuel Oil	--	--	14,599	16,698	436	--	-3,473	--	3,953	31,253	4,541
Less than 0.31 percent sulfur	--	--	-152	1,259	--	--	-620	--	NA	NA	307
0.31 to 1.00 percent sulfur	--	--	11,301	6,055	87	--	-1,057	--	NA	NA	1,293
Greater than 1.00 percent sulfur	--	--	3,450	9,384	349	--	-1,796	--	NA	NA	2,941
Petrochemical Feedstocks	--	--	--	1,006	111	--	--	--	--	1,117	--
Naphtha for Petro. Feed. Use	--	--	--	994	111	--	--	--	--	1,105	--
Other Oils for Petro. Feed. Use	--	--	--	12	--	--	--	--	--	12	--
Special Naphthas	--	--	148	141	--	--	-14	--	--	303	28
Lubricants	--	--	4,117	1,816	6,030	--	352	--	2,324	9,287	1,495
Waxes	--	--	-179	1,250	--	--	-26	--	1,029	68	235
Petroleum Coke	--	--	7,753	83	4,143	--	--	--	6,861	5,118	--
Marketable	--	--	2,574	83	4,143	--	--	--	6,861	-61	--
Catalyst	--	--	5,179	--	--	--	--	--	--	5,179	--
Asphalt and Road Oil	--	--	11,311	9,708	13,602	--	-33	--	944	33,709	5,451
Still Gas	--	--	10,308	--	--	--	--	--	--	10,308	--
Miscellaneous Products	--	--	1,124	1	--	--	10	--	183	932	67
Total	258,003	6,345	1,284,231	622,749	1,224,529	-7,589	-32,943	1,269,252	134,415	2,017,545	157,892

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Supply Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 7. PAD District 1 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, December 2021
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	63	--	--	666	80	-53	-1	733	24	0
Hydrocarbon Gas Liquids	628	0	9	66	81	--	-59	50	185	608
Natural Gas Liquids	628	0	-4	55	68	--	-56	50	185	568
Ethane	249	--	--	--	-165	--	-12	--	68	28
Propane	220	--	13	50	204	--	-50	--	104	433
Normal Butane	69	--	-17	4	48	--	4	37	10	54
Isobutane	28	--	-1	2	-10	--	1	4	0	14
Natural Gasoline	62	0	--	--	-9	--	1	9	2	39
Refinery Olefins	--	--	14	11	13	--	-3	--	--	41
Ethylene	--	--	1	--	--	--	--	--	--	1
Propylene	--	--	14	11	13	--	0	--	--	38
Normal Butylene	--	--	-1	--	--	--	-1	--	--	0
Isobutylene	--	--	0	--	--	--	-2	--	--	2
Other Liquids	--	19	--	542	2,092	218	175	2,681	9	7
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	19	--	6	326	12	20	333	4	7
Hydrogen	--	--	--	--	--	4	--	4	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	19	--	6	326	9	20	330	4	7
Fuel Ethanol ⁶	--	12	--	--	319	9	19	318	4	0
Renewable Fuels Except Fuel Ethanol	--	6	--	6	7	--	1	12	0	7
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	29	--	--	-15	42	1	1
Motor Gasoline Blend Comp. (MGBC) ⁶	--	--	--	507	1,766	206	169	2,305	4	0
Reformulated	--	--	--	277	239	34	90	461	0	0
Conventional	--	--	--	229	1,526	171	80	1,844	4	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	0	3,502	512	1,565	-215	10	--	96	5,259
Finished Motor Gasoline	--	--	3,073	34	192	-215	-10	--	1	3,093
Reformulated	--	--	1,186	--	--	-69	0	--	--	1,117
Conventional	--	--	1,887	34	192	-146	-10	--	1	1,975
Finished Aviation Gasoline	--	--	0	1	1	--	1	--	--	1
Kerosene-Type Jet Fuel	--	--	76	86	405	--	23	--	3	541
Kerosene	--	--	-2	--	5	--	-13	--	0	17
Distillate Fuel Oil ⁶	--	0	215	259	896	--	-2	--	51	1,322
15 ppm sulfur and under	--	0	223	259	857	--	12	--	22	1,305
Greater than 15 ppm to 500 ppm sulfur	--	--	-2	--	--	--	5	--	27	-35
Greater than 500 ppm sulfur	--	--	-6	--	39	--	-20	--	1	51
Residual Fuel Oil	--	--	39	83	1	--	-28	--	13	137
Less than 0.31 percent sulfur	--	--	-1	30	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	30	28	--	--	-8	--	NA	NA
Greater than 1.00 percent sulfur	--	--	9	24	1	--	-20	--	NA	NA
Petrochemical Feedstocks	--	--	--	7	--	--	--	--	--	7
Naphtha for Petro. Feed. Use	--	--	--	7	--	--	--	--	--	7
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	0	4	--	--	0	--	--	4
Lubricants	--	--	14	5	16	--	4	--	14	17
Waxes	--	--	0	4	--	--	0	--	3	1
Petroleum Coke	--	--	22	0	14	--	--	--	7	29
Marketable	--	--	8	0	14	--	--	--	7	14
Catalyst	--	--	15	--	--	--	--	--	--	15
Asphalt and Road Oil	--	--	34	30	35	--	35	--	3	60
Still Gas	--	--	28	--	--	--	--	--	--	28
Miscellaneous Products	--	--	4	--	--	--	1	--	0	3
Total	691	18	3,511	1,786	3,818	-50	124	3,464	313	5,875

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 8. PAD District 1 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-December 2021
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	74	--	--	550	82	-24	-6	672	16	0
Hydrocarbon Gas Liquids	633	0	21	41	67	--	-6	36	271	461
Natural Gas Liquids	633	0	6	32	56	--	-6	36	271	425
Ethane	243	--	--	--	-165	--	-1	--	74	6
Propane	226	--	14	28	191	--	-2	--	139	321
Normal Butane	71	--	-5	3	51	--	-2	24	54	44
Isobutane	30	--	-2	1	-11	--	0	4	0	13
Natural Gasoline	63	0	--	--	-11	--	-1	8	3	42
Refinery Olefins	--	--	15	9	12	--	0	--	--	36
Ethylene	--	--	1	--	--	--	--	--	--	1
Propylene	--	--	14	9	12	--	0	--	--	34
Normal Butylene	--	--	0	--	--	--	0	--	--	0
Isobutylene	--	--	1	--	--	--	0	--	--	1
Other Liquids	--	18	--	638	1,938	179	-17	2,769	7	14
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	18	--	5	296	21	-4	333	5	7
Hydrogen	--	--	--	--	--	3	--	3	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	18	--	5	296	18	-4	329	5	7
Fuel Ethanol ⁶	--	12	--	--	290	18	-3	319	4	0
Renewable Fuels Except Fuel Ethanol	--	6	--	5	5	--	-1	10	1	7
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	56	-2	--	1	45	1	7
Motor Gasoline Blend Comp. (MGBC) ⁶	--	--	--	576	1,644	157	-14	2,391	1	0
Reformulated	--	--	--	219	246	40	-7	511	0	0
Conventional	--	--	--	358	1,399	117	-7	1,880	1	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	0	3,497	477	1,267	-176	-61	--	75	5,052
Finished Motor Gasoline	--	--	3,116	80	112	-176	-5	--	5	3,132
Reformulated	--	--	1,172	--	--	-37	0	--	--	1,135
Conventional	--	--	1,944	80	112	-139	-4	--	5	1,997
Finished Aviation Gasoline	--	--	0	0	3	--	0	--	--	3
Kerosene-Type Jet Fuel	--	--	56	62	341	--	-3	--	5	457
Kerosene	--	--	2	1	4	--	-1	--	0	7
Distillate Fuel Oil ⁶	--	0	189	250	741	--	-44	--	23	1,200
15 ppm sulfur and under	--	0	194	250	717	--	-41	--	12	1,190
Greater than 15 ppm to 500 ppm sulfur	--	--	0	0	0	--	-1	--	9	-7
Greater than 500 ppm sulfur	--	--	-6	--	25	--	-2	--	3	18
Residual Fuel Oil	--	--	40	46	1	--	-10	--	11	86
Less than 0.31 percent sulfur	--	--	0	3	--	--	-2	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	31	17	0	--	-3	--	NA	NA
Greater than 1.00 percent sulfur	--	--	9	26	1	--	-5	--	NA	NA
Petrochemical Feedstocks	--	--	--	3	0	--	--	--	--	3
Naphtha for Petro. Feed. Use	--	--	--	3	0	--	--	--	--	3
Other Oils for Petro. Feed. Use	--	--	--	0	--	--	--	--	--	0
Special Naphthas	--	--	0	0	--	--	0	--	--	1
Lubricants	--	--	11	5	17	--	1	--	6	25
Waxes	--	--	0	3	--	--	0	--	3	0
Petroleum Coke	--	--	21	0	11	--	--	--	19	14
Marketable	--	--	7	0	11	--	--	--	19	0
Catalyst	--	--	14	--	--	--	--	--	--	14
Asphalt and Road Oil	--	--	31	27	37	--	0	--	3	92
Still Gas	--	--	28	--	--	--	--	--	--	28
Miscellaneous Products	--	--	3	0	--	--	0	--	1	3
Total	707	17	3,518	1,706	3,355	-21	-90	3,477	368	5,528

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 9. PAD District 2 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, December 2021
(Thousand Barrels)

Commodity	Supply						Disposition				
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	Ending Stocks
Crude Oil	52,620	--	--	97,364	-20,897	-3,773	2,770	120,439	2,105	0	117,639
Hydrocarbon Gas Liquids	34,267	-682	560	2,439	-14,664	--	-5,981	4,178	8,165	15,558	49,911
Natural Gas Liquids	34,267	-682	-790	2,271	-13,536	--	-5,282	4,178	8,165	14,469	49,351
Ethane	13,119	--	--	--	-6,363	--	148	--	2,480	4,128	6,933
Propane	11,609	--	2,353	1,916	-10,083	--	-1,954	--	98	7,651	21,438
Normal Butane	4,025	--	-2,947	253	-3,055	--	-2,669	1,464	56	-575	8,853
Isobutane	1,794	--	-196	97	926	--	-89	1,821	3	886	2,352
Natural Gasoline	3,720	-682	--	5	5,039	--	-718	893	5,528	2,378	9,775
Refinery Olefins	--	--	1,350	168	-1,128	--	-699	--	--	1,089	560
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1,414	109	-1,128	--	-41	--	--	436	453
Normal Butylene	--	--	-64	59	--	--	-658	--	--	653	107
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	34,270	--	562	-19,059	-3,105	4,021	6,869	3,068	-1,290	70,367
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	34,271	--	115	-22,129	75	1,020	8,979	710	1,622	10,620
Hydrogen	--	--	--	--	--	1,329	--	1,329	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	34,271	--	115	-22,129	-1,265	1,028	7,631	710	1,622	10,604
Fuel Ethanol	--	31,292	--	--	-21,057	-1,265	922	7,372	677	0	9,371
Renewable Fuels Except Fuel Ethanol	--	2,979	--	115	-1,072	--	107	259	33	1,622	1,233
Other Hydrocarbons	--	--	--	--	--	11	-8	19	--	0	16
Unfinished Oils	--	--	--	23	-1,067	--	-999	561	2,306	-2,912	13,270
Motor Gasoline Blend.Comp. (MGBC)	--	-1	--	424	4,137	-3,180	4,000	-2,671	51	0	46,477
Reformulated	--	-1	--	--	240	1,309	-168	1,716	--	0	4,650
Conventional	--	--	--	424	3,897	-4,489	4,168	-4,387	51	0	41,827
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	71	139,049	1,958	-703	4,445	1,838	--	1,520	141,462	54,450
Finished Motor Gasoline	--	74	75,696	--	-838	4,445	-66	--	326	79,116	4,402
Reformulated	--	--	10,481	--	--	-1,286	--	--	--	9,195	--
Conventional	--	74	65,215	--	-838	5,731	-66	--	326	69,921	4,402
Finished Aviation Gasoline	--	--	30	3	10	--	3	--	--	40	172
Kerosene-Type Jet Fuel	--	--	8,370	--	949	--	-353	--	8	9,664	6,821
Kerosene	--	0	264	6	--	--	-26	--	0	296	137
Distillate Fuel Oil	--	-2	36,197	354	2,039	--	1,031	--	89	37,467	29,173
15 ppm sulfur and under	--	-2	36,313	354	1,931	--	1,140	--	0	37,455	28,582
Greater than 15 ppm to 500 ppm sulfur	--	0	59	--	108	--	-68	--	37	198	236
Greater than 500 ppm sulfur	--	0	-175	--	--	--	-41	--	52	-186	355
Residual Fuel Oil	--	--	1,259	121	-936	--	-167	--	232	379	957
Less than 0.31 percent sulfur	--	--	115	--	--	--	-17	--	NA	NA	51
0.31 to 1.00 percent sulfur	--	--	536	11	-449	--	-44	--	NA	NA	196
Greater than 1.00 percent sulfur	--	--	608	110	-487	--	-106	--	NA	NA	710
Petrochemical Feedstocks	--	--	915	150	-83	--	23	--	--	959	532
Naphtha for Petro. Feed. Use	--	--	493	84	-83	--	34	--	--	460	412
Other Oils for Petro. Feed. Use	--	--	422	66	--	--	-11	--	--	499	120
Special Naphthas	--	--	-32	8	20	--	3	--	--	-7	152
Lubricants	--	--	205	225	172	--	11	--	155	436	721
Waxes	--	--	37	9	--	--	-5	--	39	12	40
Petroleum Coke	--	--	6,550	25	-994	--	227	--	588	4,766	1,502
Marketable	--	--	4,939	25	-994	--	227	--	588	3,155	1,502
Catalyst	--	--	1,611	--	--	--	--	--	--	1,611	--
Asphalt and Road Oil	--	--	4,492	1,057	-1,052	--	1,151	--	80	3,266	9,717
Still Gas	--	--	4,525	--	--	--	--	--	--	4,525	--
Miscellaneous Products	--	--	541	--	10	--	6	--	3	542	124
Total	86,887	33,659	139,609	102,323	-55,323	-2,433	2,649	131,486	14,857	155,730	292,366

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

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Table 10. PAD District 2 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-December 2021
(Thousand Barrels)

Commodity	Supply						Disposition				
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	Ending Stocks
Crude Oil	600,617	--	--	1,001,551	-225,534	-2,140	-29,520	1,369,916	34,098	0	117,639
Hydrocarbon Gas Liquids	388,012	-7,536	40,227	25,792	-217,871	--	2,761	34,392	103,031	88,440	49,911
Natural Gas Liquids	388,012	-7,536	23,635	23,066	-205,684	--	2,628	34,392	103,031	81,442	49,351
Ethane	143,596	--	--	--	-69,490	--	1,118	--	31,658	41,330	6,933
Propane	132,752	--	26,246	16,462	-132,037	--	1,457	--	1,682	40,284	21,438
Normal Butane	45,132	--	-630	4,557	-48,892	--	940	7,576	1,339	-9,688	8,853
Isobutane	22,654	--	-1,981	1,979	2,251	--	463	17,897	24	6,519	2,352
Natural Gasoline	43,878	-7,536	--	68	42,484	--	-1,350	8,919	68,328	2,997	9,775
Refinery Olefins	--	--	16,592	2,726	-12,187	--	133	--	--	6,998	560
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	16,134	2,026	-12,187	--	72	--	--	5,901	453
Normal Butylene	--	--	458	680	--	--	61	--	--	1,077	107
Isobutylene	--	--	--	20	--	--	0	--	--	20	0
Other Liquids	--	371,193	--	5,606	-168,419	-15,159	4,505	164,294	29,156	-4,734	70,367
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	371,197	--	1,156	-234,896	-6,699	-206	106,672	8,975	15,317	10,620
Hydrogen	--	--	--	--	--	13,806	--	13,806	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	371,197	--	1,156	-234,896	-20,669	-209	92,705	8,975	15,317	10,604
Fuel Ethanol	--	339,674	--	--	-224,818	-20,669	-363	87,664	6,887	0	9,371
Renewable Fuels Except Fuel Ethanol	--	31,523	--	1,156	-10,078	--	155	5,041	2,088	15,317	1,233
Other Hydrocarbons	--	--	--	--	--	164	3	161	--	0	16
Unfinished Oils	--	--	--	93	-5,245	--	1,756	-5,981	19,124	-20,051	13,270
Motor Gasoline Blend.Comp. (MGBC)	--	-4	--	4,357	71,722	-8,461	2,955	63,603	1,057	0	46,477
Reformulated	--	-4	--	--	21,114	-1,203	-529	20,435	1	0	4,650
Conventional	--	0	--	4,357	50,608	-7,257	3,484	43,168	1,056	0	41,827
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	1,512	1,612,299	18,413	31,418	29,129	-1,305	--	14,680	1,679,397	54,450
Finished Motor Gasoline	--	1,517	905,512	100	2,751	29,129	-2,954	--	3,139	938,824	4,402
Reformulated	--	--	121,074	--	--	3,436	--	--	--	124,510	--
Conventional	--	1,517	784,438	100	2,751	25,693	-2,954	--	3,139	814,314	4,402
Finished Aviation Gasoline	--	--	260	48	273	--	-9	--	--	590	172
Kerosene-Type Jet Fuel	--	--	88,621	37	10,963	--	279	--	158	99,184	6,821
Kerosene	--	0	1,724	41	19	--	-61	--	6	1,839	137
Distillate Fuel Oil	--	-5	404,459	2,821	44,788	--	1,149	--	1,275	449,639	29,173
15 ppm sulfur and under	--	-5	404,546	2,789	43,651	--	1,156	--	132	449,693	28,582
Greater than 15 ppm to 500 ppm sulfur	--	0	1,132	16	1,137	--	-66	--	213	2,138	236
Greater than 500 ppm sulfur	--	0	-1,219	16	--	--	59	--	930	-2,192	355
Residual Fuel Oil	--	--	12,918	1,782	-7,073	--	-172	--	1,747	6,052	957
Less than 0.31 percent sulfur	--	--	1,019	--	--	--	-22	--	NA	NA	51
0.31 to 1.00 percent sulfur	--	--	4,212	625	-3,375	--	-40	--	NA	NA	196
Greater than 1.00 percent sulfur	--	--	7,687	1,157	-3,698	--	-110	--	NA	NA	710
Petrochemical Feedstocks	--	--	10,792	1,608	-1,051	--	-72	--	--	11,421	532
Naphtha for Petro. Feed. Use	--	--	6,605	869	-935	--	-70	--	--	6,609	412
Other Oils for Petro. Feed. Use	--	--	4,187	739	-116	--	-2	--	--	4,812	120
Special Naphthas	--	--	-67	110	278	--	1	--	--	320	152
Lubricants	--	--	2,456	2,528	2,470	--	90	--	2,351	5,013	721
Waxes	--	--	426	191	--	--	0	--	432	185	40
Petroleum Coke	--	--	67,388	331	-9,883	--	-133	--	4,386	53,584	1,502
Marketable	--	--	49,914	331	-9,883	--	-133	--	4,386	36,110	1,502
Catalyst	--	--	17,474	--	--	--	--	--	--	17,474	--
Asphalt and Road Oil	--	--	61,363	8,816	-12,196	--	560	--	1,163	56,260	9,717
Still Gas	--	--	50,809	--	--	--	--	--	--	50,809	--
Miscellaneous Products	--	--	5,638	--	79	--	17	--	23	5,677	124
Total	988,629	365,169	1,652,526	1,051,362	-580,406	11,830	-23,559	1,568,602	180,965	1,763,103	292,366

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 11. PAD District 2 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, December 2021
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	1,697	--	--	3,141	-674	-122	89	3,885	68	0
Hydrocarbon Gas Liquids	1,105	-22	18	79	-473	--	-193	135	263	502
Natural Gas Liquids	1,105	-22	-25	73	-437	--	-170	135	263	467
Ethane	423	--	--	--	-205	--	5	--	80	133
Propane	374	--	76	62	-325	--	-63	--	3	247
Normal Butane	130	--	-95	8	-99	--	-86	47	2	-19
Isobutane	58	--	-6	3	30	--	-3	59	0	29
Natural Gasoline	120	-22	--	0	163	--	-23	29	178	77
Refinery Olefins	--	--	44	5	-36	--	-23	--	--	35
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	46	4	-36	--	-1	--	--	14
Normal Butylene	--	--	-2	2	--	--	-21	--	--	21
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	1,105	--	18	-615	-100	130	222	99	-42
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,106	--	4	-714	2	33	290	23	52
Hydrogen	--	--	--	--	--	43	--	43	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	1,106	--	4	-714	-41	33	246	23	52
Fuel Ethanol	--	1,009	--	--	-679	-41	30	238	22	0
Renewable Fuels Except Fuel Ethanol	--	96	--	4	-35	--	3	8	1	52
Other Hydrocarbons	--	--	--	--	--	0	0	1	--	0
Unfinished Oils	--	--	--	1	-34	--	-32	18	74	-94
Motor Gasoline Blend Comp. (MGBG)	--	0	--	14	133	-103	129	-86	2	0
Reformulated	--	0	--	--	8	42	-5	55	--	0
Conventional	--	--	--	14	126	-145	134	-142	2	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	2	4,485	63	-23	143	59	--	49	4,563
Finished Motor Gasoline	--	2	2,442	--	-27	143	-2	--	11	2,552
Reformulated	--	--	338	--	--	-41	--	--	--	297
Conventional	--	2	2,104	--	-27	185	-2	--	11	2,256
Finished Aviation Gasoline	--	--	1	0	0	--	0	--	--	1
Kerosene-Type Jet Fuel	--	--	270	--	31	--	-11	--	0	312
Kerosene	--	0	9	0	--	--	-1	--	0	10
Distillate Fuel Oil	--	0	1,168	11	66	--	33	--	3	1,209
15 ppm sulfur and under	--	0	1,171	11	62	--	37	--	0	1,208
Greater than 15 ppm to 500 ppm sulfur	--	0	2	--	3	--	-2	--	1	6
Greater than 500 ppm sulfur	--	0	-6	--	--	--	-1	--	2	-6
Residual Fuel Oil	--	--	41	4	-30	--	-5	--	7	12
Less than 0.31 percent sulfur	--	--	4	--	--	--	-1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	17	0	-14	--	-1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	20	4	-16	--	-3	--	NA	NA
Petrochemical Feedstocks	--	--	30	5	-3	--	1	--	--	31
Naphtha for Petro. Feed. Use	--	--	16	3	-3	--	1	--	--	15
Other Oils for Petro. Feed. Use	--	--	14	2	--	--	0	--	--	16
Special Naphthas	--	--	-1	0	1	--	0	--	--	0
Lubricants	--	--	7	7	6	--	0	--	5	14
Waxes	--	--	1	0	--	--	0	--	1	0
Petroleum Coke	--	--	211	1	-32	--	7	--	19	154
Marketable	--	--	159	1	-32	--	7	--	19	102
Catalyst	--	--	52	--	--	--	--	--	--	52
Asphalt and Road Oil	--	--	145	34	-34	--	37	--	3	105
Still Gas	--	--	146	--	--	--	--	--	--	146
Miscellaneous Products	--	--	17	--	0	--	0	--	0	17
Total	2,803	1,086	4,504	3,301	-1,785	-78	85	4,241	479	5,024

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).
⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 12. PAD District 2 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-December 2021
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	1,646	--	--	2,744	-618	-6	-81	3,753	93	0
Hydrocarbon Gas Liquids	1,063	-21	110	71	-597	--	8	94	282	242
Natural Gas Liquids	1,063	-21	65	63	-564	--	7	94	282	223
Ethane	393	--	--	--	-190	--	3	--	87	113
Propane	364	--	72	45	-362	--	4	--	5	110
Normal Butane	124	--	-2	12	-134	--	3	21	4	-27
Isobutane	62	--	-5	5	6	--	1	49	0	18
Natural Gasoline	120	-21	--	0	116	--	-4	24	187	8
Refinery Olefins	--	--	45	7	-33	--	0	--	--	19
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	44	6	-33	--	0	--	--	16
Normal Butylene	--	--	1	2	--	--	0	--	--	3
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	1,017	--	15	-461	-42	12	450	80	-13
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,017	--	3	-644	-18	-1	292	25	42
Hydrogen	--	--	--	--	--	38	--	38	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	1,017	--	3	-644	-57	-1	254	25	42
Fuel Ethanol	--	931	--	--	-616	-57	-1	240	19	0
Renewable Fuels Except Fuel Ethanol	--	86	--	3	-28	--	0	14	6	42
Other Hydrocarbons	--	--	--	--	--	0	0	0	--	0
Unfinished Oils	--	--	--	0	-14	--	5	-16	52	-55
Motor Gasoline Blend Comp. (MGBC)	--	0	--	12	196	-23	8	174	3	0
Reformulated	--	0	--	--	58	-3	-1	56	0	0
Conventional	--	0	--	12	139	-20	10	118	3	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	4	4,417	50	86	80	-4	--	40	4,601
Finished Motor Gasoline	--	4	2,481	0	8	80	-8	--	9	2,572
Reformulated	--	--	332	--	--	9	--	--	--	341
Conventional	--	4	2,149	0	8	70	-8	--	9	2,231
Finished Aviation Gasoline	--	--	1	0	1	--	0	--	--	2
Kerosene-Type Jet Fuel	--	--	243	0	30	--	1	--	0	272
Kerosene	--	0	5	0	0	--	0	--	0	5
Distillate Fuel Oil	--	0	1,108	8	123	--	3	--	3	1,232
15 ppm sulfur and under	--	0	1,108	8	120	--	3	--	0	1,232
Greater than 15 ppm to 500 ppm sulfur	--	0	3	0	3	--	0	--	1	6
Greater than 500 ppm sulfur	--	0	-3	0	--	--	0	--	3	-6
Residual Fuel Oil	--	--	35	5	-19	--	0	--	5	17
Less than 0.31 percent sulfur	--	--	3	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	12	2	-9	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	21	3	-10	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	30	4	-3	--	0	--	--	31
Naphtha for Petro. Feed. Use	--	--	18	2	-3	--	0	--	--	18
Other Oils for Petro. Feed. Use	--	--	11	2	0	--	0	--	--	13
Special Naphthas	--	--	0	0	1	--	0	--	--	1
Lubricants	--	--	7	7	7	--	0	--	6	14
Waxes	--	--	1	1	--	--	0	--	1	1
Petroleum Coke	--	--	185	1	-27	--	0	--	12	147
Marketable	--	--	137	1	-27	--	0	--	12	99
Catalyst	--	--	48	--	--	--	--	--	--	48
Asphalt and Road Oil	--	--	168	24	-33	--	2	--	3	154
Still Gas	--	--	139	--	--	--	--	--	--	139
Miscellaneous Products	--	--	15	--	0	--	0	--	0	16
Total	2,709	1,000	4,527	2,880	-1,590	32	-65	4,298	496	4,830

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 13. PAD District 3 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, December 2021
(Thousand Barrels)

Commodity	Supply						Disposition				
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	Ending Stocks
Crude Oil⁶	254,451	--	--	33,080	34,500	23,522	-20,627	263,027	103,153	0	818,735
Hydrocarbon Gas Liquids	104,923	-16	10,821	--	26,146	--	-17,451	14,370	56,661	88,294	117,461
Natural Gas Liquids	104,923	-16	3,805	--	25,419	--	-17,166	14,370	56,661	80,266	116,318
Ethane	46,372	--	176	--	16,881	--	-6,261	--	8,754	60,936	50,905
Propane	31,720	--	5,170	--	8,480	--	-3,816	--	38,207	10,979	28,615
Normal Butane	7,642	--	-1,327	--	2,575	--	-4,696	5,881	9,283	-1,578	20,479
Isobutane	8,926	--	-214	--	363	--	-2,009	3,938	56	7,090	6,414
Natural Gasoline	10,263	-16	--	--	-2,880	--	-384	4,551	360	2,840	9,905
Refinery Olefins	--	--	7,016	--	727	--	-285	--	--	8,028	1,143
Ethylene	--	--	10	--	--	--	0	--	--	10	0
Propylene	--	--	7,344	--	727	--	-92	--	--	8,163	779
Normal Butylene	--	--	-293	--	--	--	-183	--	--	-110	348
Isobutylene	--	--	-45	--	--	--	-10	--	--	-35	16
Other Liquids	--	3,218	--	13,093	-55,878	-505	-3,822	-55,512	17,675	1,587	122,247
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	3,218	--	97	6,723	3,457	529	9,297	1,883	1,787	5,546
Hydrogen	--	--	--	--	--	4,245	--	4,245	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	3,218	--	93	6,723	-784	529	5,052	1,883	1,787	5,546
Fuel Ethanol	--	781	--	--	6,570	-784	266	4,553	1,749	0	3,876
Renewable Fuels Except Fuel Ethanol	--	2,437	--	93	153	--	263	499	134	1,787	1,669
Other Hydrocarbons	--	--	--	4	--	-4	--	--	--	0	--
Unfinished Oils	--	--	--	12,862	1,067	--	-4,917	7,103	11,911	-168	41,706
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	134	-63,668	-3,962	555	-71,932	3,881	0	74,970
Reformulated	--	--	--	--	-9,522	3,771	-1,497	-4,255	1	0	9,493
Conventional	--	--	--	134	-54,146	-7,733	2,052	-67,677	3,880	0	65,477
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	11	20	--	-31	25
Finished Petroleum Products	--	2	228,449	5,696	-49,688	4,746	-3,852	--	85,765	107,292	95,105
Finished Motor Gasoline	--	0	73,799	--	-4,719	4,746	-442	--	27,122	47,146	6,769
Reformulated	--	--	13,955	--	--	-3,443	--	--	--	10,512	--
Conventional	--	0	59,844	--	-4,719	8,189	-442	--	27,122	36,634	6,769
Finished Aviation Gasoline	--	--	261	24	-55	--	2	--	--	228	507
Kerosene-Type Jet Fuel	--	--	23,396	--	-14,484	--	199	--	3,962	4,751	11,062
Kerosene	--	--	80	--	-160	--	-20	--	735	-795	314
Distillate Fuel Oil	--	2	88,687	220	-31,180	--	-2,984	--	38,000	22,713	39,235
15 ppm sulfur and under	--	2	83,174	--	-29,862	--	-1,748	--	32,158	22,904	34,549
Greater than 15 ppm to 500 ppm sulfur	--	0	1,612	--	-108	--	-519	--	1,090	933	1,084
Greater than 500 ppm sulfur	--	--	3,901	220	-1,210	--	-717	--	4,752	-1,124	3,602
Residual Fuel Oil	--	--	1,011	3,546	909	--	-776	--	1,148	5,094	15,329
Less than 0.31 percent sulfur	--	--	804	--	--	--	-247	--	NA	NA	1,071
0.31 to 1.00 percent sulfur	--	--	767	--	449	--	-141	--	NA	NA	4,384
Greater than 1.00 percent sulfur	--	--	-560	3,546	460	--	-388	--	NA	NA	9,874
Petrochemical Feedstocks	--	--	7,517	427	83	--	-452	--	--	8,479	2,006
Naphtha for Petro. Feed. Use	--	--	5,074	365	83	--	-256	--	--	5,778	1,468
Other Oils for Petro. Feed. Use	--	--	2,443	62	--	--	-196	--	--	2,701	538
Special Naphthas	--	--	871	267	-20	--	-26	--	--	1,144	850
Lubricants	--	--	4,138	867	-675	--	360	--	2,381	1,589	9,669
Waxes	--	--	137	62	--	--	20	--	37	142	274
Petroleum Coke	--	--	13,761	253	711	--	-115	--	11,925	2,915	3,846
Marketable	--	--	10,423	253	711	--	-115	--	11,925	-423	3,846
Catalyst	--	--	3,338	--	--	--	--	--	--	3,338	--
Asphalt and Road Oil	--	--	2,027	30	-88	--	437	--	439	1,093	4,918
Still Gas	--	--	11,116	--	--	--	--	--	--	11,116	--
Miscellaneous Products	--	--	1,648	--	-10	--	-55	--	16	1,677	326
Total	359,374	3,204	239,270	51,869	-44,920	27,763	-45,752	221,885	263,253	197,173	1,153,547

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 14. PAD District 3 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-December 2021
(Thousand Barrels)

Commodity	Supply						Disposition				
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	Ending Stocks
Crude Oil⁶	2,876,949	--	--	458,428	359,422	206,203	-78,189	2,941,333	1,037,858	0	818,735
Hydrocarbon Gas Liquids	1,135,421	-146	158,656	54	321,952	--	-41,477	117,331	627,416	912,667	117,461
Natural Gas Liquids	1,135,421	-146	79,480	--	314,074	--	-41,307	117,331	627,416	825,389	116,318
Ethane	490,382	--	1,505	--	179,432	--	-10,810	--	88,752	593,377	50,905
Propane	346,927	--	55,589	--	102,680	--	-8,718	--	415,874	98,040	28,615
Normal Butane	77,976	--	23,519	--	41,600	--	-8,199	37,384	120,247	-6,337	20,479
Isobutane	104,524	--	-1,133	--	11,076	--	-3,011	42,719	1,141	73,618	6,414
Natural Gasoline	115,612	-146	--	--	-20,714	--	-10,569	37,228	1,402	66,692	9,905
Refinery Olefins	--	--	79,176	54	7,878	--	-170	--	--	87,278	1,143
Ethylene	--	--	69	--	--	--	0	--	--	69	--
Propylene	--	--	82,405	--	7,878	--	-171	--	--	90,454	779
Normal Butylene	--	--	-2,755	54	--	--	-15	--	--	-2,686	348
Isobutylene	--	--	-543	--	--	--	16	--	--	-559	16
Other Liquids	--	24,642	--	184,900	-664,372	57,206	-2,331	-591,569	170,660	25,617	122,247
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	24,642	--	403	63,248	46,316	119	101,009	19,753	13,729	5,546
Hydrogen	--	--	--	--	--	43,705	--	43,705	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	24,642	--	325	63,248	2,635	119	57,250	19,753	13,729	5,546
Fuel Ethanol	--	6,978	--	--	61,994	2,635	-440	53,240	18,807	0	3,876
Renewable Fuels Except Fuel Ethanol	--	17,664	--	325	1,255	--	558	4,010	947	13,729	1,669
Other Hydrocarbons	--	--	--	78	--	-24	--	54	--	0	--
Unfinished Oils	--	--	--	161,299	5,980	--	-1,958	37,378	119,805	12,054	41,706
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	23,198	-733,600	10,890	-486	-730,128	31,102	0	74,970
Reformulated	--	--	--	307	-133,221	61,810	-1,343	-69,793	32	0	9,493
Conventional	--	--	--	22,891	-600,379	-50,920	857	-660,335	31,070	0	65,477
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	-6	172	--	-166	25
Finished Petroleum Products	--	76	2,490,779	69,575	-517,236	-13,525	-15,827	--	872,821	1,172,675	95,105
Finished Motor Gasoline	--	0	789,258	1,350	-40,535	-13,525	-1,488	--	279,552	458,483	6,769
Reformulated	--	--	159,168	--	--	-58,922	--	--	--	100,246	--
Conventional	--	0	630,090	1,350	-40,535	45,397	-1,488	--	279,552	358,238	6,769
Finished Aviation Gasoline	--	--	3,222	237	-1,259	--	84	--	--	2,116	507
Kerosene-Type Jet Fuel	--	--	236,125	--	-145,558	--	-1,362	--	30,625	61,304	11,062
Kerosene	--	--	965	--	-1,416	--	71	--	1,844	-2,366	314
Distillate Fuel Oil	--	76	973,162	1,706	-333,689	--	-13,870	--	366,493	288,632	39,235
15 ppm sulfur and under	--	76	905,454	1,086	-323,563	--	-12,882	--	314,702	281,234	34,549
Greater than 15 ppm to 500 ppm sulfur	--	0	29,352	--	-1,146	--	-248	--	21,276	7,178	1,084
Greater than 500 ppm sulfur	--	--	38,356	620	-8,980	--	-740	--	30,515	221	3,602
Residual Fuel Oil	--	--	16,339	42,651	6,637	--	-838	--	22,268	44,197	15,329
Less than 0.31 percent sulfur	--	--	7,619	1,662	--	--	-140	--	NA	NA	1,071
0.31 to 1.00 percent sulfur	--	--	7,842	2,194	3,288	--	574	--	NA	NA	4,384
Greater than 1.00 percent sulfur	--	--	878	38,795	3,349	--	-1,272	--	NA	NA	9,874
Petrochemical Feedstocks	--	--	87,547	3,834	940	--	-276	--	--	92,597	2,006
Naphtha for Petro. Feed. Use	--	--	55,919	3,319	824	--	-124	--	--	60,186	1,468
Other Oils for Petro. Feed. Use	--	--	31,628	515	116	--	-152	--	--	32,411	538
Special Naphthas	--	--	10,965	3,652	-278	--	31	--	--	14,308	850
Lubricants	--	--	48,252	12,179	-7,924	--	2,637	--	28,355	21,515	9,669
Waxes	--	--	1,413	489	--	--	20	--	300	1,582	274
Petroleum Coke	--	--	151,427	3,349	8,149	--	-810	--	138,255	25,481	3,846
Marketable	--	--	115,160	3,349	8,149	--	-810	--	138,255	-10,786	3,846
Catalyst	--	--	36,267	--	--	--	--	--	--	36,267	--
Asphalt and Road Oil	--	--	28,325	128	-2,225	--	-49	--	4,934	21,343	4,918
Still Gas	--	--	125,938	--	--	--	--	--	--	125,938	--
Miscellaneous Products	--	--	17,841	--	-79	--	23	--	194	17,545	326
Total	4,012,370	24,573	2,649,435	712,957	-500,234	249,884	-137,825	2,467,095	2,708,755	2,110,960	1,153,547

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 15. PAD District 3 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, December 2021
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil⁶	8,208	--	--	1,067	1,113	759	-665	8,485	3,328	0
Hydrocarbon Gas Liquids	3,385	-1	349	--	843	--	-563	464	1,828	2,848
Natural Gas Liquids	3,385	-1	123	--	820	--	-554	464	1,828	2,589
Ethane	1,496	--	6	--	545	--	-202	--	282	1,966
Propane	1,023	--	167	--	274	--	-123	--	1,232	354
Normal Butane	247	--	-43	--	83	--	-151	190	299	-51
Isobutane	288	--	-7	--	12	--	-65	127	2	229
Natural Gasoline	331	-1	--	--	-93	--	-12	147	12	92
Refinery Olefins	--	--	226	--	23	--	-9	--	--	259
Ethylene	--	--	0	--	--	--	0	--	--	0
Propylene	--	--	237	--	23	--	-3	--	--	263
Normal Butylene	--	--	-9	--	--	--	-6	--	--	-4
Isobutylene	--	--	-1	--	--	--	0	--	--	-1
Other Liquids	--	104	--	422	-1,803	-16	-123	-1,791	570	51
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	104	--	3	217	112	17	300	61	58
Hydrogen	--	--	--	--	--	137	--	137	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	104	--	3	217	-25	17	163	61	58
Fuel Ethanol	--	25	--	--	212	-25	9	147	56	0
Renewable Fuels Except Fuel Ethanol	--	79	--	3	5	--	8	16	4	58
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	415	34	--	-159	229	384	-5
Motor Gasoline Blend Comp. (MGBC)	--	--	--	4	-2,054	-128	18	-2,320	125	0
Reformulated	--	--	--	--	-307	122	-48	-137	0	0
Conventional	--	--	--	4	-1,747	-249	66	-2,183	125	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	1	--	-1
Finished Petroleum Products	--	0	7,369	184	-1,603	153	-124	--	2,767	3,461
Finished Motor Gasoline	--	0	2,381	--	-152	153	-14	--	875	1,521
Reformulated	--	--	450	--	--	-111	--	--	--	339
Conventional	--	0	1,930	--	-152	264	-14	--	875	1,182
Finished Aviation Gasoline	--	--	8	1	-2	--	0	--	--	7
Kerosene-Type Jet Fuel	--	--	755	--	-467	--	6	--	128	153
Kerosene	--	--	3	--	-5	--	-1	--	24	-26
Distillate Fuel Oil	--	0	2,861	7	-1,006	--	-96	--	1,226	733
15 ppm sulfur and under	--	0	2,683	--	-963	--	-56	--	1,037	739
Greater than 15 ppm to 500 ppm sulfur	--	0	52	--	-3	--	-17	--	35	30
Greater than 500 ppm sulfur	--	--	126	7	-39	--	-23	--	153	-36
Residual Fuel Oil	--	--	33	114	29	--	-25	--	37	164
Less than 0.31 percent sulfur	--	--	26	--	--	--	-8	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	25	--	14	--	-5	--	NA	NA
Greater than 1.00 percent sulfur	--	--	-18	114	15	--	-13	--	NA	NA
Petrochemical Feedstocks	--	--	242	14	3	--	-15	--	--	274
Naphtha for Petro. Feed. Use	--	--	164	12	3	--	-8	--	--	186
Other Oils for Petro. Feed. Use	--	--	79	2	--	--	-6	--	--	87
Special Naphthas	--	--	28	9	-1	--	-1	--	--	37
Lubricants	--	--	133	28	-22	--	12	--	77	51
Waxes	--	--	4	2	--	--	1	--	1	5
Petroleum Coke	--	--	444	8	23	--	-4	--	385	94
Marketable	--	--	336	8	23	--	-4	--	385	-14
Catalyst	--	--	108	--	--	--	--	--	--	108
Asphalt and Road Oil	--	--	65	1	-3	--	14	--	14	35
Still Gas	--	--	359	--	--	--	--	--	--	359
Miscellaneous Products	--	--	53	--	0	--	-2	--	1	54
Total	11,593	103	7,718	1,673	-1,449	896	-1,476	7,158	8,492	6,360

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 16. PAD District 3 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-December 2021
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil⁶	7,882	--	--	1,256	985	565	-214	8,058	2,843	0
Hydrocarbon Gas Liquids	3,111	0	435	0	882	--	-114	321	1,719	2,500
Natural Gas Liquids	3,111	0	218	--	860	--	-113	321	1,719	2,261
Ethane	1,344	--	4	--	492	--	-30	--	243	1,626
Propane	950	--	152	--	281	--	-24	--	1,139	269
Normal Butane	214	--	64	--	114	--	-22	102	329	-17
Isobutane	286	--	-3	--	30	--	-8	117	3	202
Natural Gasoline	317	0	--	--	-57	--	-29	102	4	183
Refinery Olefins	--	--	217	0	22	--	0	--	--	239
Ethylene	--	--	0	--	--	--	0	--	--	0
Propylene	--	--	226	--	22	--	0	--	--	248
Normal Butylene	--	--	-8	0	--	--	0	--	--	-7
Isobutylene	--	--	-1	--	--	--	0	--	--	-2
Other Liquids	--	68	--	507	-1,820	157	-6	-1,621	468	70
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	68	--	1	173	127	0	277	54	38
Hydrogen	--	--	--	--	--	120	--	120	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	68	--	1	173	7	0	157	54	38
Fuel Ethanol	--	19	--	--	170	7	-1	146	52	0
Renewable Fuels Except Fuel Ethanol	--	48	--	1	3	--	2	11	3	38
Other Hydrocarbons	--	--	--	0	--	0	--	0	--	0
Unfinished Oils	--	--	--	442	16	--	-5	102	328	33
Motor Gasoline Blend Comp. (MGBC)	--	--	--	64	-2,010	30	-1	-2,000	85	0
Reformulated	--	--	--	1	-365	169	-4	-191	0	0
Conventional	--	--	--	63	-1,645	-140	2	-1,809	85	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	0	6,824	191	-1,417	-37	-43	--	2,391	3,213
Finished Motor Gasoline	--	0	2,162	4	-111	-37	-4	--	766	1,256
Reformulated	--	--	436	--	--	-161	--	--	--	275
Conventional	--	0	1,726	4	-111	124	-4	--	766	981
Finished Aviation Gasoline	--	--	9	1	-3	--	0	--	--	6
Kerosene-Type Jet Fuel	--	--	647	--	-399	--	-4	--	84	168
Kerosene	--	--	3	--	-4	--	0	--	5	-6
Distillate Fuel Oil	--	0	2,666	5	-914	--	-38	--	1,004	791
15 ppm sulfur and under	--	0	2,481	3	-886	--	-35	--	862	771
Greater than 15 ppm to 500 ppm sulfur	--	0	80	--	-3	--	-1	--	58	20
Greater than 500 ppm sulfur	--	--	105	2	-25	--	-2	--	84	1
Residual Fuel Oil	--	--	45	117	18	--	-2	--	61	121
Less than 0.31 percent sulfur	--	--	21	5	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	21	6	9	--	2	--	NA	NA
Greater than 1.00 percent sulfur	--	--	2	106	9	--	-3	--	NA	NA
Petrochemical Feedstocks	--	--	240	11	3	--	-1	--	--	254
Naphtha for Petro. Feed. Use	--	--	153	9	2	--	0	--	--	165
Other Oils for Petro. Feed. Use	--	--	87	1	0	--	0	--	--	89
Special Naphthas	--	--	30	10	-1	--	0	--	--	39
Lubricants	--	--	132	33	-22	--	7	--	78	59
Waxes	--	--	4	1	--	--	0	--	1	4
Petroleum Coke	--	--	415	9	22	--	-2	--	379	70
Marketable	--	--	316	9	22	--	-2	--	379	-30
Catalyst	--	--	99	--	--	--	--	--	--	99
Asphalt and Road Oil	--	--	78	0	-6	--	0	--	14	58
Still Gas	--	--	345	--	--	--	--	--	--	345
Miscellaneous Products	--	--	49	--	0	--	0	--	1	48
Total	10,993	67	7,259	1,953	-1,371	685	-378	6,759	7,421	5,783

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 17. PAD District 4 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, December 2021
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	24,661	--	--	13,947	-19,379	-1,330	-203	18,100	1	0	24,326
Hydrocarbon Gas Liquids	16,828	-10	168	694	-15,566	--	-607	783	54	1,884	7,178
Natural Gas Liquids	16,828	-10	101	694	-15,566	--	-572	783	54	1,782	7,102
Ethane	4,939	--	--	--	-5,407	--	-128	--	--	-340	1,299
Propane	6,087	--	243	528	-5,006	--	-124	--	1	1,975	2,833
Normal Butane	2,369	--	-146	166	-2,149	--	-372	531	--	81	1,819
Isobutane	1,097	--	4	--	-1,130	--	-6	159	--	-182	438
Natural Gasoline	2,336	-10	--	--	-1,874	--	58	93	53	248	713
Refinery Olefins	--	--	67	--	--	--	-35	--	--	102	76
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	48	--	--	--	0	--	--	48	3
Normal Butylene	--	--	19	--	--	--	-35	--	--	54	73
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	504	--	7	505	27	93	712	12	226	9,755
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	504	--	4	368	334	-35	1,153	9	83	420
Hydrogen	--	--	--	--	--	245	--	245	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	504	--	4	368	89	-35	908	9	83	420
Fuel Ethanol	--	408	--	--	340	89	-27	863	1	0	379
Renewable Fuels Except Fuel Ethanol	--	95	--	4	29	--	-9	45	8	83	41
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	-91	-52	--	143	2,770
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	3	137	-306	219	-389	4	0	6,565
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	3	137	-306	219	-389	4	0	6,565
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	0	20,251	232	-351	218	855	--	16	19,478	8,735
Finished Motor Gasoline	--	--	10,267	--	-461	218	151	--	0	9,872	1,582
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	10,267	--	-461	218	151	--	0	9,872	1,582
Finished Aviation Gasoline	--	--	3	--	--	--	-1	--	--	4	9
Kerosene-Type Jet Fuel	--	--	985	36	682	--	-109	--	--	1,812	692
Kerosene	--	--	--	--	--	--	0	--	--	0	1
Distillate Fuel Oil	--	0	6,116	124	-55	--	479	--	0	5,706	4,526
15 ppm sulfur and under	--	0	6,023	124	-55	--	433	--	0	5,659	4,297
Greater than 15 ppm to 500 ppm sulfur	--	--	57	--	--	--	10	--	--	47	163
Greater than 500 ppm sulfur	--	--	36	--	--	--	36	--	--	0	66
Residual Fuel Oil	--	--	347	--	--	--	-2	--	5	344	212
Less than 0.31 percent sulfur	--	--	207	--	--	--	0	--	NA	NA	22
0.31 to 1.00 percent sulfur	--	--	24	--	--	--	0	--	NA	NA	4
Greater than 1.00 percent sulfur	--	--	116	--	--	--	-2	--	NA	NA	186
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	9	-9	--
Waxes	--	--	--	--	--	--	--	--	0	0	--
Petroleum Coke	--	--	680	--	-138	--	-52	--	--	594	137
Marketable	--	--	467	--	-138	--	-52	--	--	381	137
Catalyst	--	--	213	--	--	--	--	--	--	213	--
Asphalt and Road Oil	--	--	1,059	71	-379	--	392	--	1	358	1,559
Still Gas	--	--	659	--	--	--	--	--	--	659	--
Miscellaneous Products	--	--	135	1	--	--	-3	--	--	139	17
Total	41,489	493	20,419	14,880	-34,791	-1,085	138	19,595	84	21,588	49,995

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 18. PAD District 4 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-December 2021
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	283,419	--	--	149,653	-207,048	-18,207	98	207,718	1	0	24,326
Hydrocarbon Gas Liquids	193,009	-89	3,651	5,649	-139,987	--	686	5,966	910	54,671	7,178
Natural Gas Liquids	193,009	-89	2,505	5,649	-139,987	--	783	5,966	910	53,428	7,102
Ethane	58,712	--	--	--	-49,849	--	367	--	5	8,491	1,299
Propane	67,899	--	2,839	4,645	-44,222	--	16	--	18	31,127	2,833
Normal Butane	26,095	--	-206	935	-17,220	--	457	2,565	63	6,519	1,819
Isobutane	12,850	--	-128	69	-10,818	--	2	1,893	0	78	438
Natural Gasoline	27,453	-89	--	--	-17,878	--	-59	1,508	824	7,212	713
Refinery Olefins	--	--	1,146	--	--	--	-97	--	--	1,243	76
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	470	--	--	--	3	--	--	467	3
Normal Butylene	--	--	676	--	--	--	-100	--	--	776	73
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	6,194	--	1,106	13,599	-4,239	121	12,716	174	3,649	9,755
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	6,194	--	286	5,528	4,197	-7	13,936	165	2,110	420
Hydrogen	--	--	--	--	--	2,412	--	2,412	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	6,194	--	286	5,528	1,785	-7	11,524	165	2,110	420
Fuel Ethanol	--	3,625	--	--	5,224	1,785	-37	10,615	56	0	379
Renewable Fuels Except Fuel Ethanol	--	2,569	--	286	303	--	30	909	109	2,110	41
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	305	--	--	82	-1,318	2	1,539	2,770
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	515	8,071	-8,436	46	98	6	0	6,565
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	515	8,071	-8,436	46	98	6	0	6,565
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	-3	231,111	3,238	-5,163	6,651	186	--	262	235,386	8,735
Finished Motor Gasoline	--	--	116,406	--	-4,596	6,651	-556	--	14	119,003	1,582
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	116,406	--	-4,596	6,651	-556	--	14	119,003	1,582
Finished Aviation Gasoline	--	--	66	34	--	--	2	--	--	98	9
Kerosene-Type Jet Fuel	--	--	11,961	484	6,966	--	126	--	--	19,285	692
Kerosene	--	--	2	--	--	--	-1	--	--	3	1
Distillate Fuel Oil	--	-3	68,932	2,004	1,831	--	411	--	0	72,352	4,526
15 ppm sulfur and under	--	-3	68,170	2,004	1,835	--	373	--	0	71,633	4,297
Greater than 15 ppm to 500 ppm sulfur	--	--	749	--	-4	--	10	--	0	735	163
Greater than 500 ppm sulfur	--	--	13	--	--	--	28	--	--	-15	66
Residual Fuel Oil	--	--	4,084	--	--	--	33	--	81	3,970	212
Less than 0.31 percent sulfur	--	--	2,213	--	--	--	-1	--	NA	NA	22
0.31 to 1.00 percent sulfur	--	--	288	--	--	--	0	--	NA	NA	4
Greater than 1.00 percent sulfur	--	--	1,583	--	--	--	34	--	NA	NA	186
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	140	-140	--
Waxes	--	--	--	--	--	--	--	--	5	-5	--
Petroleum Coke	--	--	7,668	--	-3,728	--	-59	--	0	3,999	137
Marketable	--	--	5,068	--	-3,728	--	-59	--	0	1,399	137
Catalyst	--	--	2,600	--	--	--	--	--	--	2,600	--
Asphalt and Road Oil	--	--	12,882	704	-5,635	--	229	--	21	7,700	1,559
Still Gas	--	--	7,783	--	--	--	--	--	--	7,783	--
Miscellaneous Products	--	--	1,327	12	--	--	1	--	--	1,338	17
Total	476,428	6,101	234,762	159,646	-338,599	-15,795	1,092	226,400	1,346	293,706	49,995

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biogdiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 19. PAD District 4 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, December 2021
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	796	--	--	450	-625	-43	-7	584	0	0
Hydrocarbon Gas Liquids	543	0	5	22	-502	--	-20	25	2	61
Natural Gas Liquids	543	0	3	22	-502	--	-18	25	2	57
Ethane	159	--	--	--	-174	--	-4	--	--	-11
Propane	196	--	8	17	-161	--	-4	--	0	64
Normal Butane	76	--	-5	5	-69	--	-12	17	--	3
Isobutane	35	--	0	--	-36	--	0	5	--	-6
Natural Gasoline	75	0	--	--	-60	--	2	3	2	8
Refinery Olefins	--	--	2	--	--	--	-1	--	--	3
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	2	--	--	--	0	--	--	2
Normal Butylene	--	--	1	--	--	--	-1	--	--	2
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	16	--	0	16	1	3	23	0	7
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	16	--	0	12	11	-1	37	0	3
Hydrogen	--	--	--	--	--	8	--	8	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	16	--	0	12	3	-1	29	0	3
Fuel Ethanol	--	13	--	--	11	3	-1	28	0	0
Renewable Fuels Except Fuel Ethanol	--	3	--	0	1	--	0	1	0	3
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	-3	-2	--	5
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	0	4	-10	7	-13	0	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	0	4	-10	7	-13	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	0	653	7	-11	7	28	--	1	628
Finished Motor Gasoline	--	--	331	--	-15	7	5	--	0	318
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	331	--	-15	7	5	--	0	318
Finished Aviation Gasoline	--	--	0	--	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	32	1	22	--	-4	--	--	58
Kerosene	--	--	--	--	--	--	0	--	--	0
Distillate Fuel Oil	--	0	197	4	-2	--	15	--	0	184
15 ppm sulfur and under	--	0	194	4	-2	--	14	--	0	183
Greater than 15 ppm to 500 ppm sulfur	--	--	2	--	--	--	0	--	--	2
Greater than 500 ppm sulfur	--	--	1	--	--	--	1	--	--	0
Residual Fuel Oil	--	--	11	--	--	--	0	--	0	11
Less than 0.31 percent sulfur	--	--	7	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	1	--	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	4	--	--	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	0	0
Waxes	--	--	--	--	--	--	--	--	0	0
Petroleum Coke	--	--	22	--	-4	--	-2	--	--	19
Marketable	--	--	15	--	-4	--	-2	--	--	12
Catalyst	--	--	7	--	--	--	--	--	--	7
Asphalt and Road Oil	--	--	34	2	-12	--	13	--	0	12
Still Gas	--	--	21	--	--	--	--	--	--	21
Miscellaneous Products	--	--	4	0	--	--	0	--	--	4
Total	1,338	16	659	480	-1,122	-35	4	632	3	696

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 20. PAD District 4 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-December 2021
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	776	--	--	410	-567	-50	0	569	0	0
Hydrocarbon Gas Liquids	529	0	10	15	-384	--	2	16	2	150
Natural Gas Liquids	529	0	7	15	-384	--	2	16	2	146
Ethane	161	--	--	--	-137	--	1	--	0	23
Propane	186	--	8	13	-121	--	0	--	0	85
Normal Butane	71	--	-1	3	-47	--	1	7	0	18
Isobutane	35	--	0	0	-30	--	0	5	0	0
Natural Gasoline	75	0	--	--	-49	--	0	4	2	20
Refinery Olefins	--	--	3	--	--	--	0	--	--	3
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1	--	--	--	0	--	--	1
Normal Butylene	--	--	2	--	--	--	0	--	--	2
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	17	--	3	37	-12	0	35	0	10
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	17	--	1	15	11	0	38	0	6
Hydrogen	--	--	--	--	--	7	--	7	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	17	--	1	15	5	0	32	0	6
Fuel Ethanol	--	10	--	--	14	5	0	29	0	0
Renewable Fuels Except Fuel Ethanol	--	7	--	1	1	--	0	2	0	6
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	1	--	--	0	-4	0	4
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	1	22	-23	0	0	0	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	1	22	-23	0	0	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	0	633	9	-14	18	1	--	1	645
Finished Motor Gasoline	--	--	319	--	-13	18	-2	--	0	326
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	319	--	-13	18	-2	--	0	326
Finished Aviation Gasoline	--	--	0	0	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	33	1	19	--	0	--	--	53
Kerosene	--	--	0	--	--	--	0	--	--	0
Distillate Fuel Oil	--	0	189	5	5	--	1	--	0	198
15 ppm sulfur and under	--	0	187	5	5	--	1	--	0	196
Greater than 15 ppm to 500 ppm sulfur	--	--	2	--	0	--	0	--	0	2
Greater than 500 ppm sulfur	--	--	0	--	--	--	0	--	--	0
Residual Fuel Oil	--	--	11	--	--	--	0	--	0	11
Less than 0.31 percent sulfur	--	--	6	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	1	--	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	4	--	--	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	0	0
Waxes	--	--	--	--	--	--	--	--	0	0
Petroleum Coke	--	--	21	--	-10	--	0	--	0	11
Marketable	--	--	14	--	-10	--	0	--	0	4
Catalyst	--	--	7	--	--	--	--	--	--	7
Asphalt and Road Oil	--	--	35	2	-15	--	1	--	0	21
Still Gas	--	--	21	--	--	--	--	--	--	21
Miscellaneous Products	--	--	4	0	--	--	0	--	--	4
Total	1,305	17	643	437	-928	-43	3	620	4	805

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 21. PAD District 5 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, December 2021
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	24,898	--	--	34,034	3,289	746	-2,254	64,192	1,028	0	46,748
Hydrocarbon Gas Liquids	2,232	-6	205	1,367	1,566	--	-1,273	3,788	1,488	1,360	3,596
Natural Gas Liquids	2,232	-6	-19	1,367	1,566	--	-1,287	3,788	1,488	1,150	3,546
Ethane	--	--	--	--	--	--	--	--	0	0	--
Propane	256	--	946	869	291	--	-512	--	821	2,053	1,670
Normal Butane	586	--	-1,094	498	1,127	--	-713	2,151	603	-924	1,513
Isobutane	269	--	129	--	148	--	-41	574	--	13	334
Natural Gasoline	1,121	-6	--	--	--	--	-21	1,063	65	8	29
Refinery Olefins	--	--	224	--	--	--	14	--	--	210	50
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	212	--	--	--	0	--	--	212	16
Normal Butylene	--	--	12	--	--	--	14	--	--	-2	34
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	1,178	--	2,351	9,582	-835	716	9,015	496	2,050	51,500
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,179	--	608	4,921	1,579	134	6,788	281	1,084	4,992
Hydrogen	--	--	--	--	--	1,510	--	1,510	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	1,179	--	608	4,921	69	134	5,278	281	1,084	4,992
Fuel Ethanol	--	251	--	--	4,243	69	-172	4,479	257	0	2,357
Renewable Fuels Except Fuel Ethanol	--	928	--	608	677	--	306	799	24	1,084	2,635
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	938	--	--	-1,325	1,222	75	966	18,933
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	805	4,661	-2,414	1,907	1,005	140	0	27,575
Reformulated	--	0	--	--	1,866	-307	1,028	529	2	0	13,831
Conventional	--	0	--	805	2,795	-2,107	879	476	138	0	13,744
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	46	82,575	3,032	2,226	2,345	-711	--	7,262	83,674	31,866
Finished Motor Gasoline	--	39	44,381	618	71	2,345	355	--	1,680	45,420	2,074
Reformulated	--	--	31,040	--	--	605	2	--	--	31,643	16
Conventional	--	39	13,341	618	71	1,740	353	--	1,680	13,776	2,058
Finished Aviation Gasoline	--	--	107	--	--	--	89	--	--	18	316
Kerosene-Type Jet Fuel	--	7	11,763	1,730	307	--	-1,381	--	930	14,258	8,066
Kerosene	--	--	16	--	--	--	14	--	--	2	35
Distillate Fuel Oil	--	-1	14,915	320	1,411	--	-137	--	1,776	15,007	12,413
15 ppm sulfur and under	--	-1	14,199	320	1,411	--	1	--	1,311	14,617	11,610
Greater than 15 ppm to 500 ppm sulfur	--	--	508	--	--	--	10	--	334	164	267
Greater than 500 ppm sulfur	--	--	208	--	--	--	-148	--	131	225	536
Residual Fuel Oil	--	--	2,135	251	--	--	-420	--	7	2,799	4,350
Less than 0.31 percent sulfur	--	--	2	--	--	--	-114	--	NA	NA	1,089
0.31 to 1.00 percent sulfur	--	--	572	36	--	--	22	--	NA	NA	435
Greater than 1.00 percent sulfur	--	--	1,561	215	--	--	-328	--	NA	NA	2,826
Petrochemical Feedstocks	--	--	--	--	--	--	0	--	--	0	2
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	0	--	--	0	2
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	21	--	--	--	-26	--	--	47	18
Lubricants	--	--	531	--	--	--	55	--	72	404	949
Waxes	--	--	--	70	--	--	--	--	4	66	--
Petroleum Coke	--	--	3,940	--	3	--	336	--	2,768	839	1,335
Marketable	--	--	3,066	--	3	--	336	--	2,768	-35	1,335
Catalyst	--	--	874	--	--	--	--	--	--	874	--
Asphalt and Road Oil	--	--	761	43	434	--	404	--	23	811	2,222
Still Gas	--	--	3,603	--	--	--	--	--	--	3,603	--
Miscellaneous Products	--	--	402	--	--	--	0	--	0	402	87
Total	27,130	1,218	82,780	40,784	16,663	2,256	-3,523	76,995	10,274	87,084	133,711

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 22. PAD District 5 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-December 2021
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	294,524	--	--	419,634	43,163	18,806	1,582	764,644	9,901	0	46,748
Hydrocarbon Gas Liquids	22,555	-64	14,940	16,751	11,281	--	-657	27,725	17,923	20,472	3,596
Natural Gas Liquids	22,555	-64	12,943	16,751	11,281	--	-694	27,725	17,923	18,512	3,546
Ethane	7	--	--	--	--	--	--	--	1	6	--
Propane	2,993	--	11,709	9,995	3,788	--	-473	--	9,177	19,781	1,670
Normal Butane	5,436	--	214	6,750	5,932	--	-173	9,899	8,409	197	1,513
Isobutane	3,058	--	1,020	6	1,561	--	-38	7,664	7	-1,988	334
Natural Gasoline	11,061	-64	--	--	--	--	-10	10,162	328	517	29
Refinery Olefins	--	--	1,997	--	--	--	37	--	--	1,960	50
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	2,106	--	--	--	5	--	--	2,101	16
Normal Butylene	--	--	-109	--	--	--	32	--	--	-141	34
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	9,358	--	49,040	111,798	-12,383	1,458	132,406	6,350	17,599	51,500
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	9,363	--	11,884	58,223	15,028	366	78,168	3,430	12,533	4,992
Hydrogen	--	--	--	--	--	15,717	--	15,717	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	9,363	--	11,884	58,223	-689	366	62,451	3,430	12,533	4,992
Fuel Ethanol	--	3,011	--	1,447	51,644	-689	-633	53,502	2,543	0	2,357
Renewable Fuels Except Fuel Ethanol	--	6,352	--	10,437	6,579	--	999	8,949	887	12,533	2,635
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	21,054	--	--	1,920	13,148	920	5,066	18,933
Motor Gasoline Blend.Comp. (MGBC)	--	-4	--	16,102	53,575	-27,411	-828	41,090	2,000	0	27,575
Reformulated	--	-4	--	901	22,440	-1,079	-1,639	23,858	39	0	13,831
Conventional	--	0	--	15,201	31,135	-26,331	811	17,232	1,961	0	13,744
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	409	968,438	58,771	28,468	28,100	-4,042	--	91,177	997,051	31,866
Finished Motor Gasoline	--	337	526,827	8,825	1,642	28,100	-923	--	15,949	550,706	2,074
Reformulated	--	--	369,995	--	--	4,855	-2	--	--	374,852	16
Conventional	--	337	156,832	8,825	1,642	23,245	-921	--	15,949	175,854	2,058
Finished Aviation Gasoline	--	--	421	11	--	--	16	--	--	416	316
Kerosene-Type Jet Fuel	--	92	121,657	34,293	3,173	--	-879	--	6,257	153,838	8,066
Kerosene	--	--	104	--	--	--	22	--	249	-167	35
Distillate Fuel Oil	--	-19	186,599	7,224	16,455	--	-2,164	--	22,025	190,398	12,413
15 ppm sulfur and under	--	-19	178,485	5,655	16,451	--	-1,971	--	15,143	187,401	11,610
Greater than 15 ppm to 500 ppm sulfur	--	--	4,319	1,569	4	--	53	--	2,941	2,898	267
Greater than 500 ppm sulfur	--	--	3,795	--	--	--	-246	--	3,941	100	536
Residual Fuel Oil	--	--	27,888	6,772	--	--	-395	--	6,411	28,644	4,350
Less than 0.31 percent sulfur	--	--	757	--	--	--	237	--	NA	NA	1,089
0.31 to 1.00 percent sulfur	--	--	6,906	3,167	--	--	-87	--	NA	NA	435
Greater than 1.00 percent sulfur	--	--	20,225	3,605	--	--	-545	--	NA	NA	2,826
Petrochemical Feedstocks	--	--	--	307	--	--	0	--	--	307	2
Naphtha for Petro. Feed. Use	--	--	--	307	--	--	0	--	--	307	2
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	419	--	--	--	-30	--	--	449	18
Lubricants	--	--	6,399	323	-576	--	55	--	3,971	2,120	949
Waxes	--	--	--	354	--	--	--	--	45	309	--
Petroleum Coke	--	--	44,922	--	1,319	--	119	--	35,949	10,173	1,335
Marketable	--	--	34,479	--	1,319	--	119	--	35,949	-270	1,335
Catalyst	--	--	10,443	--	--	--	--	--	--	10,443	--
Asphalt and Road Oil	--	--	9,496	662	6,455	--	136	--	319	16,158	2,222
Still Gas	--	--	39,507	--	--	--	--	--	--	39,507	--
Miscellaneous Products	--	--	4,199	--	--	--	2	--	3	4,194	87
Total	317,079	9,704	983,378	544,196	194,709	34,523	-1,658	924,775	125,351	1,035,122	133,711

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 23. PAD District 5 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, December 2021
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	803	--	--	1,098	106	24	-73	2,071	33	0
Hydrocarbon Gas Liquids	72	0	7	44	51	--	-41	122	48	44
Natural Gas Liquids	72	0	-1	44	51	--	-42	122	48	37
Ethane	--	--	--	--	--	--	--	--	0	0
Propane	8	--	31	28	9	--	-17	--	26	66
Normal Butane	19	--	-35	16	36	--	-23	69	19	-30
Isobutane	9	--	4	--	5	--	-1	19	--	0
Natural Gasoline	36	0	--	--	--	--	-1	34	2	0
Refinery Olefins	--	--	7	--	--	--	0	--	--	7
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	7	--	--	--	0	--	--	7
Normal Butylene	--	--	0	--	--	--	0	--	--	0
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	38	--	76	309	-27	23	291	16	66
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	38	--	20	159	51	4	219	9	35
Hydrogen	--	--	--	--	--	49	--	49	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	38	--	20	159	2	4	170	9	35
Fuel Ethanol	--	8	--	--	137	2	-6	144	8	0
Renewable Fuels Except Fuel Ethanol	--	30	--	20	22	--	10	26	1	35
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	30	--	--	-43	39	2	31
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	26	150	-78	62	32	5	0
Reformulated	--	0	--	--	60	-10	33	17	0	0
Conventional	--	0	--	26	90	-68	28	15	4	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	1	2,664	98	72	76	-23	--	234	2,699
Finished Motor Gasoline	--	1	1,432	20	2	76	11	--	54	1,465
Reformulated	--	--	1,001	--	--	20	0	--	--	1,021
Conventional	--	1	430	20	2	56	11	--	54	444
Finished Aviation Gasoline	--	--	3	--	--	--	3	--	--	1
Kerosene-Type Jet Fuel	--	0	379	56	10	--	-45	--	30	460
Kerosene	--	--	1	--	--	--	0	--	--	0
Distillate Fuel Oil	--	0	481	10	46	--	-4	--	57	484
15 ppm sulfur and under	--	0	458	10	46	--	0	--	42	472
Greater than 15 ppm to 500 ppm sulfur	--	--	16	--	--	--	0	--	11	5
Greater than 500 ppm sulfur	--	--	7	--	--	--	-5	--	4	7
Residual Fuel Oil	--	--	69	8	--	--	-14	--	0	90
Less than 0.31 percent sulfur	--	--	0	--	--	--	-4	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	18	1	--	--	1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	50	7	--	--	-11	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	0	--	--	0
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	0	--	--	0
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	1	--	--	--	-1	--	--	2
Lubricants	--	--	17	--	--	--	2	--	2	13
Waxes	--	--	--	2	--	--	--	--	0	2
Petroleum Coke	--	--	127	--	0	--	11	--	89	27
Marketable	--	--	99	--	0	--	11	--	89	-1
Catalyst	--	--	28	--	--	--	--	--	--	28
Asphalt and Road Oil	--	--	25	1	14	--	13	--	1	26
Still Gas	--	--	116	--	--	--	--	--	--	116
Miscellaneous Products	--	--	13	--	--	--	0	--	0	13
Total	875	39	2,670	1,316	538	73	-114	2,484	331	2,809

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 24. PAD District 5 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-December 2021
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	807	--	--	1,150	118	52	4	2,095	27	0
Hydrocarbon Gas Liquids	62	0	41	46	31	--	-2	76	49	56
Natural Gas Liquids	62	0	35	46	31	--	-2	76	49	51
Ethane	0	--	--	--	--	--	--	--	0	0
Propane	8	--	32	27	10	--	-1	--	25	54
Normal Butane	15	--	1	18	16	--	0	27	23	1
Isobutane	8	--	3	0	4	--	0	21	0	-5
Natural Gasoline	30	0	--	--	--	--	0	28	1	1
Refinery Olefins	--	--	5	--	--	--	0	--	--	5
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	6	--	--	--	0	--	--	6
Normal Butylene	--	--	0	--	--	--	0	--	--	0
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	26	--	134	306	-34	4	363	17	48
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	26	--	33	160	41	1	214	9	34
Hydrogen	--	--	--	--	--	43	--	43	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	26	--	33	160	-2	1	171	9	34
Fuel Ethanol	--	8	--	4	141	-2	-2	147	7	0
Renewable Fuels Except Fuel Ethanol	--	17	--	29	18	--	3	25	2	34
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	58	--	--	5	36	3	14
Motor Gasoline Blend Comp. (MGBC)	--	0	--	44	147	-75	-2	113	5	0
Reformulated	--	0	--	2	61	-3	-4	65	0	0
Conventional	--	0	--	42	85	-72	2	47	5	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	1	2,653	161	78	77	-11	--	250	2,732
Finished Motor Gasoline	--	1	1,443	24	4	77	-3	--	44	1,509
Reformulated	--	--	1,014	--	--	13	0	--	--	1,027
Conventional	--	1	430	24	4	64	-3	--	44	482
Finished Aviation Gasoline	--	--	1	0	--	--	0	--	--	1
Kerosene-Type Jet Fuel	--	0	333	94	9	--	-2	--	17	421
Kerosene	--	--	0	--	--	--	0	--	1	0
Distillate Fuel Oil	--	0	511	20	45	--	-6	--	60	522
15 ppm sulfur and under	--	0	489	15	45	--	-5	--	41	513
Greater than 15 ppm to 500 ppm sulfur	--	--	12	4	0	--	0	--	8	8
Greater than 500 ppm sulfur	--	--	10	--	--	--	-1	--	11	0
Residual Fuel Oil	--	--	76	19	--	--	-1	--	18	78
Less than 0.31 percent sulfur	--	--	2	--	--	--	1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	19	9	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	55	10	--	--	-1	--	NA	NA
Petrochemical Feedstocks	--	--	--	1	--	--	0	--	--	1
Naphtha for Petro. Feed. Use	--	--	--	1	--	--	0	--	--	1
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	18	1	-2	--	0	--	11	6
Waxes	--	--	--	1	--	--	--	--	0	1
Petroleum Coke	--	--	123	--	4	--	0	--	98	28
Marketable	--	--	94	--	4	--	0	--	98	-1
Catalyst	--	--	29	--	--	--	--	--	--	29
Asphalt and Road Oil	--	--	26	2	18	--	0	--	1	44
Still Gas	--	--	108	--	--	--	--	--	--	108
Miscellaneous Products	--	--	12	--	--	--	0	--	0	11
Total	869	27	2,694	1,491	533	95	-5	2,534	343	2,836

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 25. Crude Oil Supply, Disposition, and Ending Stocks by PAD District, December 2021
(Thousand Barrels, Except Where Noted)

Process	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Supply							
Field Production	1,959	52,620	254,451	24,661	24,898	358,588	11,567
Alaskan	--	--	--	--	--	--	--
Lower 48 States	--	--	--	--	--	--	--
Imports (PAD District of Entry)	20,643	97,364	33,080	13,947	34,034	199,068	6,422
Commercial	20,643	97,364	33,080	13,947	34,034	199,068	6,422
Strategic Petroleum Reserve (SPR)	--	--	--	--	--	--	--
Net Receipts	2,487	-20,897	34,500	-19,379	3,289	--	--
Adjustments ¹	-1,652	-3,773	23,522	-1,330	746	17,513	565
Disposition							
Stock Change ²	-23	2,770	-20,627	-203	-2,254	-20,337	-656
Commercial	-23	2,770	-12,842	-203	-2,254	-12,552	-405
SPR	--	--	-7,785	--	--	-7,785	-251
Refinery Inputs	22,725	120,439	263,027	18,100	64,192	488,483	15,758
Exports	735	2,105	103,153	1	1,028	107,023	3,452
Ending Stocks							
Total	7,654	117,639	818,735	24,326	46,748	1,015,102	--
Commercial	7,654	117,639	225,053	24,326	46,748	421,420	--
Refinery	5,872	12,926	40,941	2,536	20,561	82,836	--
Tank Farms and Pipelines	1,782	104,713	184,112	21,790	22,639	335,036	--
Cushing, Oklahoma	--	37,697	--	--	--	37,697	--
Lease	--	--	--	--	--	--	--
Alaskan Crude Oil In-Transit by Water	--	--	--	--	3,548	3,548	--
SPR	--	--	593,682	--	--	593,682	--
SPR Stocks							
Percent of Total Crude Oil Stocks (Percent)	--	--	--	--	--	58.5	--
Percent of Total Petroleum Stocks (Percent)	--	--	--	--	--	33.2	--
Days of Total Petroleum Net Imports (Days)	--	--	--	--	--	--	--
SPR Receipts Detail							
Receipts	--	--	--	--	--	--	--
Domestic	--	--	--	--	--	--	--
Imports	--	--	--	--	--	--	--
Imported by SPR	--	--	--	--	--	--	--
Imported for SPR by Others	--	--	--	--	--	--	--
Imports							
PAD District of Entry	20,643	97,364	33,080	13,947	34,034	199,068	6,422
PAD District of Processing	21,196	90,699	42,276	10,493	34,404	199,068	6,422

-- = Not Applicable.

-- = No Data Reported.

¹ Crude oil adjustment was previously referred to as Unaccounted-for Crude Oil.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

Notes: Totals may not equal the sum of components due to independent rounding. Values of Domestic Crude Oil Field Production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," and EIA-817, "Monthly Tanker and Barge Movements Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 26. Production of Crude Oil by PAD District and State, December 2021
(Thousand Barrels)

PAD District and State	December 2021		January-December 2021	
	Total	Daily Average	Total	Daily Average
PAD District 1	1,959	63	26,969	74
Florida	107	3	1,487	4
New York	12	0	178	0
Pennsylvania	529	17	6,386	17
Virginia	0	0	2	0
West Virginia	1,310	42	18,915	52
PAD District 2	52,620	1,697	600,617	1,646
Illinois	603	19	7,054	19
Indiana	152	5	1,523	4
Kansas	2,248	73	27,556	75
Kentucky	197	6	2,310	6
Michigan	359	12	4,444	12
Missouri	5	0	50	0
Nebraska	131	4	1,590	4
North Dakota	34,982	1,128	393,936	1,079
Ohio	1,543	50	18,147	50
Oklahoma	12,299	397	142,778	391
South Dakota	81	3	1,025	3
Tennessee	21	1	205	1
PAD District 3	254,451	8,208	2,876,949	7,882
Alabama	340	11	4,223	12
Arkansas	363	12	4,177	11
Louisiana	2,714	88	32,682	90
Mississippi	1,061	34	13,373	37
New Mexico	42,217	1,362	459,772	1,260
Texas	154,638	4,988	1,741,639	4,772
Federal Offshore PAD District 3	53,118	1,713	621,083	1,702
PAD District 4	24,661	796	283,419	776
Colorado	12,175	393	143,533	393
Idaho	2	0	26	0
Montana	1,592	51	18,754	51
Utah	3,588	116	36,338	100
Wyoming	7,304	236	84,768	232
PAD District 5	24,898	803	294,524	807
Alaska	13,985	451	159,623	437
South Alaska	295	10	3,462	9
North Slope	13,689	442	156,161	428
Arizona	1	0	7	0
California	10,625	343	130,616	358
Nevada	18	1	211	1
Federal Offshore PAD District 5	270	9	4,069	11
U.S. Total	358,588	11,567	4,082,478	11,185

— = No Data Reported.

Note: Year-to-date totals include revised monthly production estimates by state published in Petroleum Navigator. Crude oil production quantities are estimated by state and summed to the PADD and the U.S. level. State production estimates reported by EIA are normally different from data reported by state agencies. For example, production estimates for Texas reported on table 26 are different from production reported by the Railroad Commission of Texas. See EIA "Today In Energy" article released on July 10, 2015 (<http://www.eia.gov/todayinenergy/detail.cfm?id=22012>) for an explanation of differences in production data for Texas.

Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," state government agencies, U.S. Department of the Interior, and the Bureau of Ocean Energy Management.

Table 27. Natural Gas Plant Net Production and Stocks of Petroleum Products by PAD and Refining Districts, December 2021
(Thousand Barrels)

Commodity	Production						
	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	9	19,453	19,462	4,772	12,425	17,070	34,267
Natural Gas Liquids	9	19,453	19,462	4,772	12,425	17,070	34,267
Ethane	—	7,706	7,706	1,617	3,807	7,695	13,119
Propane	3	6,814	6,817	2,094	4,426	5,089	11,609
Normal Butane	6	2,145	2,151	443	1,865	1,717	4,025
Isobutane	—	880	880	339	593	862	1,794
Natural Gasoline	—	1,908	1,908	279	1,734	1,707	3,720

Commodity	Production								
	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	83,873	4,922	5,654	430	10,044	104,923	16,828	2,232	177,712
Natural Gas Liquids	83,873	4,922	5,654	430	10,044	104,923	16,828	2,232	177,712
Ethane	37,470	2,558	2,371	84	3,889	46,372	4,939	—	72,136
Propane	25,274	1,288	1,779	138	3,241	31,720	6,087	256	56,489
Normal Butane	8,523	2,652	625	60	1,086	7,642	2,369	586	16,773
Isobutane	4,536	3,350	340	48	652	8,926	1,097	269	12,966
Natural Gasoline	8,070	378	539	100	1,176	10,263	2,336	1,121	19,348

Commodity	Stocks						
	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	4	244	248	898	121	462	1,481
Natural Gas Liquids	4	244	248	898	121	462	1,481
Ethane	—	—	—	33	4	125	162
Propane	2	120	122	559	44	61	664
Normal Butane	2	46	48	123	22	21	166
Isobutane	—	6	6	72	6	61	139
Natural Gasoline	—	72	72	111	45	194	350

Commodity	Stocks								
	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	258	302	563	4	1	1,128	165	377	3,399
Natural Gas Liquids	258	302	563	4	1	1,128	165	377	3,399
Ethane	51	14	—	—	—	65	6	—	233
Propane	65	40	21	1	—	127	63	136	1,112
Normal Butane	21	30	353	—	—	404	31	175	824
Isobutane	64	14	26	—	—	104	21	42	312
Natural Gasoline	57	204	163	3	1	428	44	24	918

— = No Data Reported.
Note: Refer to Appendix A for Refining District descriptions.
Sources: Energy Information Administration (EIA) Form EIA-816, "Monthly Natural Gas Liquids Report."

Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, December 2021
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	19,848	2,877	22,725	77,038	16,237	27,164	120,439
Hydrocarbon Gas Liquids	1,565	—	1,565	2,773	108	1,297	4,178
Natural Gas Liquids	1,565	—	1,565	2,773	108	1,297	4,178
Normal Butane	1,149	—	1,149	893	66	505	1,464
Isobutane	127	—	127	1,313	40	468	1,821
Natural Gasoline	289	—	289	567	2	324	893
Other Liquids	77,346	5,754	83,100	4,095	1,910	864	6,869
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	9,561	768	10,329	5,734	1,434	1,811	8,979
Hydrogen	106	6	112	815	308	206	1,329
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	9,455	762	10,217	4,900	1,126	1,605	7,631
Fuel Ethanol	9,165	690	9,855	4,742	1,085	1,545	7,372
Renewable Diesel Fuel ²	290	72	362	158	41	60	259
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	19	—	—	19
Unfinished Oils (net)	1,461	-148	1,313	202	-120	479	561
Naphthas and Lighter	-29	-91	-120	-96	-6	398	296
Kerosene and Light Gas Oils	211	—	211	-448	-16	-20	-484
Heavy Gas Oils	461	-62	399	807	-98	132	841
Residuum	818	5	823	-61	—	-31	-92
Motor Gasoline Blend.Comp. (MGBC)(net)	66,324	5,134	71,458	-1,841	596	-1,426	-2,671
Reformulated - RBOB	14,306	—	14,306	-221	1,044	893	1,716
Conventional	52,018	5,134	57,152	-1,620	-448	-2,319	-4,387
CBOB	44,604	5,137	49,741	-1,128	-397	-2,492	-4,017
GTAB	2,852	—	2,852	—	—	—	—
Other	4,562	-3	4,559	-492	-51	173	-370
Aviation Gasoline Blend. Comp. (net)	—	—	—	—	—	—	—
Total Input	98,759	8,631	107,390	83,906	18,255	29,325	131,486

See footnotes at end of table.

Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, December 2021
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	21,179	143,592	87,695	7,703	2,858	263,027	18,100	64,192	488,483
Hydrocarbon Gas Liquids	750	8,541	4,859	111	109	14,370	783	3,788	24,684
Natural Gas Liquids	750	8,541	4,859	111	109	14,370	783	3,788	24,684
Normal Butane	454	2,696	2,663	68	—	5,881	531	2,151	11,176
Isobutane	245	2,297	1,255	39	102	3,938	159	574	6,619
Natural Gasoline	51	3,548	941	4	7	4,551	93	1,063	6,889
Other Liquids	8,889	-48,097	-22,968	6,895	-231	-55,512	712	9,015	44,184
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	2,210	3,426	2,359	1,094	208	9,297	1,153	6,788	36,546
Hydrogen	124	2,431	1,589	58	43	4,245	245	1,510	7,441
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	2,086	995	770	1,036	165	5,052	908	5,278	29,086
Fuel Ethanol	2,053	862	497	995	146	4,553	863	4,479	27,122
Renewable Diesel Fuel ²	33	89	40	41	19	222	30	798	1,671
Other Renewable Fuels	—	44	233	—	—	277	15	1	293
Other Hydrocarbons	—	—	—	—	—	—	—	—	19
Unfinished Oils (net)	185	-3,782	11,022	-89	-233	7,103	-52	1,222	10,147
Naphthas and Lighter	124	-6,557	-361	-49	-133	-6,976	-52	8	-6,844
Kerosene and Light Gas Oils	-1	-1,643	872	-65	-70	-907	111	-784	-1,853
Heavy Gas Oils	98	3,404	6,914	90	-30	10,476	36	1,611	13,363
Residuum	-36	1,014	3,597	-65	—	4,510	-147	387	5,481
Motor Gasoline Blend.Comp. (MGBC)(net)	6,485	-47,752	-36,349	5,890	-206	-71,932	-389	1,005	-2,529
Reformulated - RBOB	5,860	-8,477	-1,097	16	-557	-4,255	—	529	12,296
Conventional	625	-39,275	-35,252	5,874	351	-67,677	-389	476	-14,825
CBOB	780	-36,670	-33,864	5,895	338	-63,521	-258	1,052	-17,003
GTAB	—	—	—	—	—	—	—	—	2,852
Other	-155	-2,605	-1,388	-21	13	-4,156	-131	-576	-674
Aviation Gasoline Blend. Comp. (net)	9	11	—	—	—	20	—	—	20
Total Input	30,818	104,036	69,586	14,709	2,736	221,885	19,595	76,995	557,351

— = Not Applicable.

— = No Data Reported.

¹ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

² Renewable diesel fuel includes biodiesel and other renewable diesel.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal Report."

Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, December 2021
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	308	-20	288	994	-332	-102	560
Natural Gas Liquids	-112	-20	-132	39	-480	-349	-790
Ethane	-	-	-	-	-	-	-
Propane	395	22	417	1,590	282	481	2,353
Normal Butane	-490	-30	-520	-1,431	-699	-817	-2,947
Isobutane	-17	-12	-29	-120	-63	-13	-196
Natural Gasoline	-	-	-	-	-	-	-
Refinery Olefins	420	-	420	955	148	247	1,350
Ethylene	19	-	19	-	-	-	-
Propylene	426	-	426	1,019	148	247	1,414
Normal Butylene	-37	-	-37	-64	-	-	-64
Isobutylene	12	-	12	-	-	-	-
Finished Motor Gasoline	88,426	6,834	95,260	48,961	10,442	16,293	75,696
Reformulated	36,748	26	36,774	7,943	1,546	992	10,481
Reformulated Blended with Fuel Ethanol	36,748	26	36,774	7,943	1,546	992	10,481
Reformulated Other	-	-	-	-	-	-	-
Conventional	51,678	6,808	58,486	41,018	8,896	15,301	65,215
Conventional Blended with Fuel Ethanol	54,320	6,878	61,198	38,969	8,986	13,956	61,911
Ed55 and Lower	54,276	6,878	61,154	38,956	8,952	13,879	61,787
Greater than Ed55	44	-	44	13	34	77	124
Conventional Other	-2,642	-70	-2,712	2,049	-90	1,345	3,304
Finished Aviation Gasoline	-	-4	-4	-	30	-	30
Kerosene-Type Jet Fuel	2,362	-	2,362	6,522	844	1,004	8,370
Kerosene	-63	5	-58	166	-	98	264
Distillate Fuel Oil	5,916	755	6,671	20,115	5,392	10,690	36,197
15 ppm sulfur and under	6,180	746	6,926	20,123	5,445	10,745	36,313
Greater than 15 ppm to 500 ppm sulfur	-51	-12	-63	-	-	59	59
Greater than 500 ppm sulfur	-213	21	-192	-8	-53	-114	-175
Residual Fuel Oil	1,208	2	1,210	927	187	145	1,259
Less than 0.31 percent sulfur	-22	2	-20	115	-	-	115
0.31 to 1.00 percent sulfur	942	-	942	405	105	26	536
Greater than 1.00 percent sulfur	288	-	288	407	82	119	608
Petrochemical Feedstocks	-	-	-	879	-	36	915
Naphtha for Petro. Feed. Use	-	-	-	493	-	-	493
Other Oils for Petro. Feed. Use	-	-	-	386	-	36	422
Special Naphthas	-	2	2	-50	-	18	-32
Lubricants	214	207	421	-	-	205	205
Waxes	-	-15	-15	-	-	37	37
Petroleum Coke	672	18	690	4,572	953	1,025	6,550
Marketable	238	-	238	3,393	774	772	4,939
Catalyst	434	18	452	1,179	179	253	1,611
Asphalt and Road Oil	362	693	1,055	2,975	1,310	207	4,492
Still Gas	812	46	858	2,773	646	1,106	4,525
Miscellaneous Products	56	58	114	358	127	56	541
Total	100,273	8,581	108,854	89,192	19,599	30,818	139,609
Processing Gain(-) or Loss(+) ¹	-1,514	50	-1,464	-5,286	-1,344	-1,493	-8,123

See footnotes at end of table.

Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, December 2021
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	473	5,481	4,930	-59	-4	10,821	168	205	12,042
Natural Gas Liquids	77	1,497	2,325	-90	-4	3,805	101	-19	2,965
Ethane	7	105	64	-	-	176	-	-	176
Propane	302	2,607	2,216	16	29	5,170	243	946	9,129
Normal Butane	-234	-860	-94	-106	-33	-1,327	-146	-1,094	-6,034
Isobutane	2	-355	139	-	-	-214	4	129	-306
Natural Gasoline	-	-	-	-	-	-	-	-	-
Refinery Olefins	396	3,984	2,605	31	-	7,016	67	224	9,077
Ethylene	-	10	-	-	-	10	-	-	29
Propylene	444	4,146	2,723	31	-	7,344	48	212	9,444
Normal Butylene	-48	-127	-118	-	-	-293	19	12	-363
Isobutylene	-	-45	-	-	-	-45	-	-	-33
Finished Motor Gasoline	20,865	27,760	14,239	9,438	1,497	73,799	10,267	44,381	299,403
Reformulated	7,402	6,553	-	-	-	13,955	-	31,040	92,250
Reformulated Blended with Fuel Ethanol	7,402	6,551	-	-	-	13,953	-	31,040	92,248
Reformulated Other	-	2	-	-	-	2	-	-	2
Conventional	13,463	21,207	14,239	9,438	1,497	59,844	10,267	13,341	207,153
Conventional Blended with Fuel Ethanol	13,059	2,079	4,968	9,885	1,469	31,460	8,628	13,508	176,705
Ed55 and Lower	13,046	2,079	4,968	9,879	1,468	31,440	8,618	13,505	176,504
Greater than Ed55	13	-	-	6	1	20	10	3	201
Conventional Other	404	19,128	9,271	-447	28	28,384	1,639	-167	30,448
Finished Aviation Gasoline	61	141	59	-	-	261	3	107	397
Kerosene-Type Jet Fuel	1,522	12,010	9,731	133	0	23,396	985	11,763	46,876
Kerosene	0	63	1	16	-	80	-	16	302
Distillate Fuel Oil	6,655	44,371	33,671	2,951	1,039	88,687	6,116	14,915	152,586
15 ppm sulfur and under	6,662	43,314	29,275	2,884	1,039	83,174	6,023	14,199	146,635
Greater than 15 ppm to 500 ppm sulfur	-7	217	1,313	89	-	1,612	57	508	2,173
Greater than 500 ppm sulfur	-	840	3,083	-22	-	3,901	36	208	3,778
Residual Fuel Oil	259	91	568	-11	104	1,011	347	2,135	5,962
Less than 0.31 percent sulfur	233	-	571	-	-	804	207	2	1,108
0.31 to 1.00 percent sulfur	7	381	390	-11	-	767	24	572	2,841
Greater than 1.00 percent sulfur	19	-290	-393	-	104	-560	116	1,561	2,013
Petrochemical Feedstocks	134	5,071	2,310	2	-	7,517	-	-	8,432
Naphtha for Petro. Feed. Use	124	3,645	1,303	2	-	5,074	-	-	5,567
Other Oils for Petro. Feed. Use	10	1,426	1,007	-	-	2,443	-	-	2,865
Special Naphthas	84	631	-	156	-	871	-	21	862
Lubricants	16	1,748	1,622	752	-	4,138	-	531	5,295
Waxes	-	54	60	23	-	137	-	-	159
Petroleum Coke	479	7,858	5,240	164	20	13,761	680	3,940	25,621
Marketable	227	5,858	4,191	147	-	10,423	467	3,066	19,133
Catalyst	252	2,000	1,049	17	20	3,338	213	874	6,488
Asphalt and Road Oil	207	108	590	1,079	43	2,027	1,059	761	9,394
Still Gas	833	6,410	3,511	297	65	11,116	659	3,603	20,761
Miscellaneous Products	153	957	482	18	38	1,648	135	402	2,840
Total	31,741	112,754	77,014	14,959	2,802	239,270	20,419	82,780	590,932
Processing Gain(-) or Loss(+) ¹	-923	-8,718	-7,428	-250	-66	-17,385	-824	-5,785	-33,581

- = No Data Reported.

¹ Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal Report."

Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, December 2021
(Thousand Barrels, Except Where Noted)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	19,848	2,877	22,725	77,038	16,237	27,164	120,439
Hydrocarbon Gas Liquids	445	—	445	2,696	40	783	3,519
Natural Gas Liquids	445	—	445	2,696	40	783	3,519
Normal Butane	318	—	318	816	—	86	902
Isobutane	127	—	127	1,313	40	468	1,821
Natural Gasoline	—	—	—	567	—	229	796
Other Liquids	-9,523	-33	-9,556	-40,481	-6,544	-12,142	-59,167
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	177	146	323	1,076	493	365	1,934
Hydrogen	106	6	112	815	308	206	1,329
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	71	140	211	242	185	159	586
Fuel Ethanol	71	115	186	183	173	137	493
Renewable Diesel Fuel ²	—	25	25	59	12	22	93
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	19	—	—	19
Unfinished Oils (net)	1,461	-148	1,313	202	-120	479	561
Naphthas and Lighter	-29	-91	-120	-96	-6	398	296
Kerosene and Light Gas Oils	211	—	211	-448	-16	-20	-484
Heavy Gas Oils	461	-62	399	807	-98	132	841
Residuum	818	5	823	-61	—	-31	-92
Motor Gasoline Blend.Comp. (MGBC)(net)	-11,161	-31	-11,192	-41,759	-6,917	-12,986	-61,662
Reformulated - RBOB	-7,472	—	-7,472	-6,928	—	—	-6,928
Conventional	-3,689	-31	-3,720	-34,831	-6,917	-12,986	-54,734
CBOB	-3,169	-28	-3,197	-34,329	-6,866	-13,159	-54,354
GTAB	—	—	—	—	—	—	—
Other	-520	-3	-523	-502	-51	173	-380
Aviation Gasoline Blend. Comp. (net)	—	—	—	—	—	—	—
Total Input to Refineries	10,770	2,844	13,614	39,253	9,733	15,805	64,791
Atmospheric Crude Oil Distillation							
Gross Input (daily average)	668	93	761	2,459	532	878	3,869
Operable Capacity (daily average)	720	98	818	2,718	547	926	4,191
Operable Utilization Rate (percent) ³	92.8	95.0	93.1	90.5	97.3	94.9	92.3
Downstream Processing							
Fresh Feed Input (daily average)							
Catalytic Reforming	96	14	110	427	74	162	663
Catalytic Cracking	250	14	264	820	148	209	1,177
Catalytic Hydrocracking	42	—	42	160	54	57	271
Delayed and Fluid Coking	36	—	36	385	74	92	551
Crude Oil Qualities							
Sulfur Content, Weighted Average (percent)	0.73	1.65	0.85	1.56	1.83	0.69	1.40
API Gravity, Weighted Average (degrees)	37.16	31.78	36.45	31.93	27.04	38.80	32.75
Operable Capacity (daily average)	720	98	818	2,718	547	926	4,191
Operating	720	98	818	2,718	509	926	4,153
Idle	—	—	—	—	38	—	38
Alaskan Crude Oil Receipts	—	—	—	—	—	—	—

See footnotes at end of table.

Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, December 2021
(Thousand Barrels, Except Where Noted) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	21,179	143,592	87,695	7,703	2,858	263,027	18,100	64,192	488,483
Hydrocarbon Gas Liquids	693	5,343	4,634	81	109	10,860	685	3,756	19,265
Natural Gas Liquids	693	5,343	4,634	81	109	10,860	685	3,756	19,265
Normal Butane	410	2,115	2,438	38	—	5,001	441	2,119	8,781
Isobutane	245	2,297	1,255	39	102	3,938	157	574	6,617
Natural Gasoline	38	931	941	4	7	1,921	87	1,063	3,867
Other Liquids	-9,426	-57,009	-25,794	-2,008	-1,586	-95,823	-4,863	-33,085	-202,494
Hydrogen/Oxygenates/Renewables/									
Other Hydrocarbons	327	2,497	2,054	109	56	5,043	530	1,969	9,799
Hydrogen	124	2,431	1,589	58	43	4,245	245	1,510	7,441
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	203	66	465	51	13	798	285	459	2,339
Fuel Ethanol	184	47	192	39	7	469	255	124	1,527
Renewable Diesel Fuel ²	19	19	40	12	6	96	15	334	563
Other Renewable Fuels	—	—	233	—	—	233	15	1	249
Other Hydrocarbons	—	—	—	—	—	—	—	—	19
Unfinished Oils (net)	185	-3,155	11,022	-89	-233	7,730	-52	1,222	10,774
Naphthas and Lighter	124	-6,557	-361	-49	-133	-6,976	-52	8	-6,844
Kerosene and Light Gas Oils	-1	-1,016	872	-65	-70	-280	111	-784	-1,226
Heavy Gas Oils	98	3,404	6,914	90	-30	10,476	36	1,611	13,363
Residuum	-36	1,014	3,597	-65	—	4,510	-147	387	5,481
Motor Gasoline Blend Comp. (MGBC)(net)	-9,947	-56,362	-38,870	-2,028	-1,409	-108,616	-5,341	-36,276	-223,087
Reformulated - RBOB	-796	-14,898	-1,097	—	-557	-17,348	—	-26,626	-58,374
Conventional	-9,151	-41,464	-37,773	-2,028	-852	-91,268	-5,341	-9,650	-164,713
CBOB	-8,996	-33,171	-35,085	-2,007	-840	-80,099	-5,209	-8,857	-151,716
GTAB	—	—	—	—	—	—	—	—	—
Other	-155	-8,293	-2,688	-21	-12	-11,169	-132	-793	-12,997
Aviation Gasoline Blend. Comp. (net)	9	11	—	—	—	20	—	—	20
Total Input to Refineries	12,446	91,926	66,535	5,776	1,381	178,064	13,922	34,863	305,254
Atmospheric Crude Oil Distillation									
Gross Input (daily average)	688	4,772	3,034	220	92	8,807	586	2,259	16,282
Operable Capacity (daily average)	746	5,106	3,275	258	110	9,496	657	2,715	17,877
Operable Utilization Rate (percent) ³	92.2	93.5	92.6	85.3	83.8	92.7	89.2	83.2	91.1
Downstream Processing									
Fresh Feed Input (daily average)									
Catalytic Reforming	147	668	502	38	18	1,372	94	364	2,603
Catalytic Cracking	178	1,354	902	20	22	2,476	159	585	4,661
Catalytic Hydrocracking	45	533	458	17	14	1,067	29	474	1,883
Delayed and Fluid Coking	27	740	490	37	—	1,293	57	392	2,330
Crude Oil Qualities									
Sulfur Content, Weighted Average (percent)	0.59	1.51	1.29	1.36	0.83	1.34	1.43	1.30	1.33
API Gravity, Weighted Average (degrees)	40.09	33.68	32.30	32.21	39.07	33.85	33.82	27.90	32.89
Operable Capacity (daily average)	746	5,106	3,275	258	110	9,496	657	2,715	17,877
Operating	746	5,071	3,004	258	110	9,190	647	2,612	17,420
Idle	—	35	271	—	—	306	10	103	457
Alaskan Crude Oil Receipts	—	—	—	—	—	—	—	13,018	13,018

— = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

² Renewable diesel fuel includes biodiesel and other renewable diesel.

³ Represents gross input divided by operable calendar day capacity.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."

Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, December 2021
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	308	-20	288	994	-332	-102	560
Natural Gas Liquids	-112	-20	-132	39	-480	-349	-790
Ethane	—	—	—	—	—	—	—
Propane	395	22	417	1,590	282	481	2,353
Normal Butane	-490	-30	-520	-1,431	-699	-817	-2,947
Isobutane	-17	-12	-29	-120	-63	-13	-196
Natural Gasoline	—	—	—	—	—	—	—
Refinery Olefins	420	—	420	955	148	247	1,350
Ethylene	19	—	19	—	—	—	—
Propylene	426	—	426	1,019	148	247	1,414
Normal Butylene	-37	—	-37	-64	—	—	-64
Isobutylene	12	—	12	—	—	—	—
Finished Motor Gasoline	704	1,091	1,795	4,391	1,945	2,806	9,142
Reformulated	704	—	704	—	—	1	1
Reformulated Blended with Fuel Ethanol	704	—	704	—	—	1	1
Reformulated Other	—	—	—	—	—	—	—
Conventional	—	1,091	1,091	4,391	1,945	2,805	9,141
Conventional Blended with Fuel Ethanol	—	1,161	1,161	1,864	1,653	1,398	4,915
Ed55 and Lower	—	1,161	1,161	1,864	1,653	1,398	4,915
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	—	-70	-70	2,527	292	1,407	4,226
Finished Aviation Gasoline	—	—	—	—	30	—	30
Kerosene-Type Jet Fuel	2,362	—	2,362	6,553	844	1,004	8,401
Kerosene	-51	5	-46	168	—	98	266
Distillate Fuel Oil	5,614	707	6,321	19,998	5,363	10,653	36,014
15 ppm sulfur and under	5,881	698	6,579	20,006	5,416	10,707	36,129
Greater than 15 ppm to 500 ppm sulfur	-51	-12	-63	—	—	-43	-43
Greater than 500 ppm sulfur	-216	21	-195	-8	-53	-11	-72
Residual Fuel Oil	1,287	2	1,289	927	187	145	1,259
Less than 0.31 percent sulfur	—	2	2	115	—	—	115
0.31 to 1.00 percent sulfur	941	—	941	405	105	26	536
Greater than 1.00 percent sulfur	346	—	346	407	82	119	608
Petrochemical Feedstocks	—	—	—	879	—	36	915
Naphtha for Petro. Feed. Use	—	—	—	493	—	—	493
Other Oils for Petro. Feed. Use	—	—	—	386	—	36	422
Special Naphthas	—	2	2	-50	—	18	-32
Lubricants	214	207	421	—	—	205	205
Waxes	—	-15	-15	—	—	37	37
Petroleum Coke	672	18	690	4,572	953	1,025	6,550
Marketable	238	—	238	3,393	774	772	4,939
Catalyst	434	18	452	1,179	179	253	1,611
Asphalt and Road Oil	304	693	997	2,975	1,310	206	4,491
Still Gas	812	46	858	2,773	646	1,106	4,525
Miscellaneous Products	56	58	114	358	127	56	541
Total	12,282	2,794	15,076	44,538	11,073	17,293	72,904
Processing Gain(-) or Loss(+) ¹	-1,512	50	-1,462	-5,285	-1,340	-1,488	-8,113

See footnotes at end of table.

Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, December 2021
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	473	5,481	4,930	-59	-4	10,821	168	205	12,042
Natural Gas Liquids	77	1,497	2,325	-90	-4	3,805	101	-19	2,965
Ethane	7	105	64	—	—	176	—	—	176
Propane	302	2,607	2,216	16	29	5,170	243	946	9,129
Normal Butane	-234	-860	-94	-106	-33	-1,327	-146	-1,094	-6,034
Isobutane	2	-355	139	—	—	-214	4	129	-306
Natural Gasoline	—	—	—	—	—	—	—	—	—
Refinery Olefins	396	3,984	2,605	31	—	7,016	67	224	9,077
Ethylene	—	10	—	—	—	10	—	—	29
Propylene	444	4,146	2,723	31	—	7,344	48	212	9,444
Normal Butylene	-48	-127	-118	—	—	-293	19	12	-363
Isobutylene	—	-45	—	—	—	-45	—	—	-33
Finished Motor Gasoline	2,504	15,083	11,187	535	155	29,464	4,607	2,717	47,725
Reformulated	—	—	—	—	—	—	—	623	1,328
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	623	1,328
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	2,504	15,083	11,187	535	155	29,464	4,607	2,094	46,397
Conventional Blended with Fuel Ethanol	1,920	469	1,931	394	71	4,785	2,600	645	14,106
Ed55 and Lower	1,920	469	1,931	394	71	4,785	2,600	645	14,106
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	584	14,614	9,256	141	84	24,679	2,007	1,449	32,291
Finished Aviation Gasoline	61	141	59	—	—	261	3	107	401
Kerosene-Type Jet Fuel	1,522	11,993	9,724	133	—	23,372	916	11,791	46,842
Kerosene	0	81	0	16	—	97	—	0	317
Distillate Fuel Oil	6,642	44,379	33,679	2,920	1,026	88,646	6,170	14,442	151,593
15 ppm sulfur and under	6,649	43,254	29,283	2,853	1,026	83,065	6,077	13,741	145,591
Greater than 15 ppm to 500 ppm sulfur	-7	217	1,313	89	—	1,612	57	508	2,071
Greater than 500 ppm sulfur	—	908	3,083	-22	—	3,969	36	193	3,931
Residual Fuel Oil	259	650	569	-11	104	1,571	347	2,135	6,601
Less than 0.31 percent sulfur	233	—	571	—	—	804	207	61	1,189
0.31 to 1.00 percent sulfur	7	381	390	-11	—	767	24	572	2,840
Greater than 1.00 percent sulfur	19	269	-392	—	104	0	116	1,502	2,572
Petrochemical Feedstocks	134	5,071	2,310	2	—	7,517	—	—	8,432
Naphtha for Petro. Feed. Use	124	3,645	1,303	2	—	5,074	—	—	5,567
Other Oils for Petro. Feed. Use	10	1,426	1,007	—	—	2,443	—	—	2,865
Special Naphthas	84	631	—	156	—	871	—	21	862
Lubricants	16	1,748	1,622	752	—	4,138	—	531	5,295
Waxes	—	54	60	23	—	137	—	—	159
Petroleum Coke	479	7,858	5,240	164	20	13,761	680	3,940	25,621
Marketable	227	5,858	4,191	147	—	10,423	467	3,066	19,133
Catalyst	252	2,000	1,049	17	20	3,338	213	874	6,488
Asphalt and Road Oil	207	108	589	1,079	43	2,026	1,059	761	9,334
Still Gas	833	6,410	3,511	297	65	11,116	659	3,603	20,761
Miscellaneous Products	153	957	482	18	38	1,648	135	402	2,840
Total	13,367	100,645	73,962	6,025	1,447	195,446	14,744	40,655	338,825
Processing Gain(-) or Loss(+) ¹	-921	-8,719	-7,427	-249	-66	-17,382	-822	-5,792	-33,571

— = No Data Reported.

¹ Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."

Table 32. Blender Net Inputs of Petroleum Products by PAD District, December 2021
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	1,120	—	1,120	77	68	514	659
Natural Gas Liquids	1,120	—	1,120	77	68	514	659
Normal Butane	831	—	831	77	66	419	562
Isobutane	—	—	—	—	—	—	—
Natural Gasoline	289	—	289	—	2	95	97
Other Liquids	86,869	5,787	92,656	44,576	8,454	13,006	66,036
Oxygenates/Renewables	9,384	622	10,006	4,658	941	1,446	7,045
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	9,384	622	10,006	4,658	941	1,446	7,045
Fuel Ethanol	9,094	575	9,669	4,559	912	1,408	6,879
Renewable Diesel Fuel ²	290	47	337	99	29	38	166
Other Renewable Fuels	—	—	—	—	—	—	—
Unfinished Oils (net)	—	—	—	—	—	—	—
Naphthas and Lighter	—	—	—	—	—	—	—
Kerosene and Light Gas Oils	—	—	—	—	—	—	—
Heavy Gas Oils	—	—	—	—	—	—	—
Residuum	—	—	—	—	—	—	—
Motor Gasoline Blend.Comp. (MGBC)(net)	77,485	5,165	82,650	39,918	7,513	11,560	58,991
Reformulated - RBOB	21,778	—	21,778	6,707	1,044	893	8,644
Conventional	55,707	5,165	60,872	33,211	6,469	10,667	50,347
CBOB	47,773	5,165	52,938	33,201	6,469	10,667	50,337
GTAB	2,852	—	2,852	—	—	—	—
Other	5,082	—	5,082	10	—	—	10
Aviation Gasoline Blend. Comp. (net)	—	—	—	—	—	—	—
Total Input	87,989	5,787	93,776	44,653	8,522	13,520	66,695

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	57	3,198	225	30	—	3,510	98	32	5,419
Natural Gas Liquids	57	3,198	225	30	—	3,510	98	32	5,419
Normal Butane	44	581	225	30	—	880	90	32	2,395
Isobutane	—	—	—	—	—	—	2	—	2
Natural Gasoline	13	2,617	—	—	—	2,630	6	—	3,022
Other Liquids	18,315	8,912	2,826	8,903	1,355	40,311	5,575	42,100	246,678
Oxygenates/Renewables	1,883	929	305	985	152	4,254	623	4,819	26,747
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	1,883	929	305	985	152	4,254	623	4,819	26,747
Fuel Ethanol	1,869	815	305	956	139	4,084	608	4,355	25,595
Renewable Diesel Fuel ²	14	70	—	29	13	126	15	464	1,108
Other Renewable Fuels	—	44	—	—	—	44	—	—	44
Unfinished Oils (net)	—	-627	—	—	—	-627	—	—	-627
Naphthas and Lighter	—	—	—	—	—	—	—	—	—
Kerosene and Light Gas Oils	—	-627	—	—	—	-627	—	—	-627
Heavy Gas Oils	—	—	—	—	—	—	—	—	—
Residuum	—	—	—	—	—	—	—	—	—
Motor Gasoline Blend.Comp. (MGBC)(net)	16,432	8,610	2,521	7,918	1,203	36,684	4,952	37,281	220,558
Reformulated - RBOB	6,656	6,421	—	16	—	13,093	—	27,155	70,670
Conventional	9,776	2,189	2,521	7,902	1,203	23,591	4,952	10,126	149,888
CBOB	9,776	-3,499	1,221	7,902	1,178	16,578	4,951	9,909	134,713
GTAB	—	—	—	—	—	—	—	—	2,852
Other	—	5,688	1,300	—	25	7,013	1	217	12,323
Aviation Gasoline Blend. Comp. (net)	—	—	—	—	—	—	—	—	—
Total Input	18,372	12,110	3,051	8,933	1,355	43,821	5,673	42,132	252,097

— = Not Applicable.

— = No Data Reported.

¹ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

² Renewable diesel fuel includes biodiesel and other renewable diesel.

Note: Refer to Appendix A for Refining District descriptions.

Sources: Energy Information Administration (EIA) Form EIA-815, "Monthly Bulk Terminal Report."

Table 33. Blender Net Production of Petroleum Products by PAD District, December 2021
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Finished Motor Gasoline	87,722	5,743	93,465	44,570	8,497	13,487	66,554
Reformulated	36,044	26	36,070	7,943	1,546	991	10,480
Reformulated Blended with Fuel Ethanol	36,044	26	36,070	7,943	1,546	991	10,480
Reformulated Other	-	-	-	-	-	-	-
Conventional	51,678	5,717	57,395	36,627	6,951	12,496	56,074
Conventional Blended with Fuel Ethanol	54,320	5,717	60,037	37,105	7,333	12,558	56,996
Ed55 and Lower	54,276	5,717	59,993	37,092	7,299	12,481	56,872
Greater than Ed55	44	-	44	13	34	77	124
Conventional Other	-2,642	-	-2,642	-478	-382	-62	-922
Finished Aviation Gasoline	-	-4	-4	-	-	-	-
Kerosene-Type Jet Fuel	0	-	0	-31	-	0	-31
Kerosene	-12	-	-12	-2	-	-	-2
Distillate Fuel Oil	302	48	350	117	29	37	183
15 ppm sulfur and under	299	48	347	117	29	38	184
Greater than 15 ppm to 500 ppm sulfur	-	-	-	-	-	102	102
Greater than 500 ppm sulfur	3	-	3	-	-	-103	-103
Residual Fuel Oil	-79	-	-79	-	-	-	-
Less than 0.31 percent sulfur	-22	-	-22	-	-	-	-
0.31 to 1.00 percent sulfur	1	-	1	-	-	-	-
Greater than 1.00 percent sulfur	-58	-	-58	-	-	-	-
Special Naphthas	-	-	-	-	-	-	-
Lubricants	-	-	-	-	-	-	-
Asphalt and Road Oil	58	-	58	-	-	1	1
Miscellaneous Products	-	-	-	-	-	-	-
Total Production	87,991	5,787	93,778	44,654	8,526	13,525	66,705
Processing Gain(-) or Loss(+) ¹	-2	0	-2	-1	-4	-5	-10

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Finished Motor Gasoline	18,361	12,677	3,052	8,903	1,342	44,335	5,660	41,664	251,678
Reformulated	7,402	6,553	-	-	-	13,955	-	30,417	90,922
Reformulated Blended with Fuel Ethanol	7,402	6,551	-	-	-	13,953	-	30,417	90,920
Reformulated Other	-	2	-	-	-	2	-	-	2
Conventional	10,959	6,124	3,052	8,903	1,342	30,380	5,660	11,247	160,756
Conventional Blended with Fuel Ethanol	11,139	1,610	3,037	9,491	1,398	26,675	6,028	12,863	162,599
Ed55 and Lower	11,126	1,610	3,037	9,485	1,397	26,655	6,018	12,860	162,398
Greater than Ed55	13	-	-	6	1	20	10	3	201
Conventional Other	-180	4,514	15	-588	-56	3,705	-368	-1,616	-1,843
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-4
Kerosene-Type Jet Fuel	0	17	7	-	0	24	69	-28	34
Kerosene	-	-18	1	-	-	-17	-	16	-15
Distillate Fuel Oil	13	-8	-8	31	13	41	-54	473	993
15 ppm sulfur and under	13	60	-8	31	13	109	-54	458	1,044
Greater than 15 ppm to 500 ppm sulfur	-	-	-	-	-	-	-	-	102
Greater than 500 ppm sulfur	-	-68	-	-	-	-68	-	15	-153
Residual Fuel Oil	-	-559	-1	-	-	-560	-	0	-639
Less than 0.31 percent sulfur	-	-	-	-	-	-	-	-59	-81
0.31 to 1.00 percent sulfur	-	-	-	-	-	-	-	-	1
Greater than 1.00 percent sulfur	-	-559	-1	-	-	-560	-	59	-559
Special Naphthas	-	-	-	-	-	-	-	-	-
Lubricants	-	-	-	-	-	-	-	-	-
Asphalt and Road Oil	-	-	1	-	-	1	-	-	60
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total Production	18,374	12,109	3,052	8,934	1,355	43,824	5,675	42,125	252,107
Processing Gain(-) or Loss(+) ¹	-2	1	-1	-1	0	-3	-2	7	-10

- = No Data Reported.

¹ Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

Sources: Energy Information Administration (EIA) Form EIA-815, "Monthly Bulk Terminal Report."

Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, December 2021
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	5,185	687	5,872	9,439	1,552	1,935	12,926
Petroleum Products	9,793	2,272	12,065	29,730	7,243	10,617	47,590
Hydrocarbon Gas Liquids	636	40	676	2,613	493	1,182	4,288
Natural Gas Liquids	377	40	417	2,078	475	1,175	3,728
Ethane	—	—	—	—	—	—	—
Propane	82	4	86	456	34	601	1,091
Normal Butane	218	27	245	1,237	406	186	1,829
Isobutane	77	9	86	300	35	191	526
Natural Gasoline	—	—	—	85	—	197	282
Refinery Olefins	259	0	259	535	18	7	560
Ethylene	—	—	—	—	—	—	—
Propylene	146	0	146	428	18	7	453
Normal Butylene	84	0	84	107	0	0	107
Isobutylene	29	0	29	0	0	0	0
Oxygenates/Renewable Fuels/Other Hydrocarbons	134	98	232	73	60	31	164
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	134	98	232	57	60	31	148
Fuel Ethanol	134	87	221	37	44	26	107
Renewable Diesel Fuel ²	—	11	11	20	16	5	41
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	16	—	—	16
Unfinished Oils	2,851	451	3,302	8,442	1,101	3,624	13,167
Naphthas and Lighter	449	281	730	2,418	170	1,013	3,601
Kerosene and Light Gas Oils	337	—	337	2,030	366	344	2,740
Heavy Gas Oils	1,388	160	1,548	2,847	565	1,296	4,708
Residuum	677	10	687	1,147	—	971	2,118
Motor Gasoline Blending Components (MGBC)	3,014	269	3,283	8,333	1,692	2,911	12,936
Reformulated - RBOB	1,304	—	1,304	919	—	—	919
Conventional	1,710	269	1,979	7,414	1,692	2,911	12,017
CBOB	78	224	302	3,166	1,071	1,784	6,021
GTAB	—	—	—	—	—	—	—
Other	1,632	45	1,677	4,248	621	1,127	5,996
Aviation Gasoline Blending Components	—	—	—	—	—	—	—
Finished Motor Gasoline	—	36	36	566	125	204	895
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	—	36	36	566	125	204	895
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	—	36	36	566	125	204	895
Finished Aviation Gasoline	—	—	—	—	73	—	73
Kerosene-Type Jet Fuel	644	—	644	1,418	225	292	1,935
Kerosene	55	8	63	76	—	17	93
Distillate Fuel Oil	1,484	228	1,712	3,890	1,174	1,563	6,627
15 ppm sulfur and under	1,278	175	1,453	3,685	1,104	1,456	6,245
Greater than 15 ppm to 500 ppm sulfur	42	34	76	—	1	49	50
Greater than 500 ppm sulfur	164	19	183	205	69	58	332
Residual Fuel Oil	261	21	282	557	188	94	839
Less than 0.31 percent sulfur	—	19	19	50	—	—	50
0.31 to 1.00 percent sulfur	88	2	90	104	57	32	193
Greater than 1.00 percent sulfur	173	—	173	403	131	62	596
Petrochemical Feedstocks	—	—	—	532	—	—	532
Naphtha for Petro. Feed. Use	—	—	—	412	—	—	412
Other Oils for Petro. Feed. Use	—	—	—	120	—	—	120
Special Naphthas	—	14	14	50	—	27	77
Lubricants	622	341	963	—	—	247	247
Waxes	—	235	235	—	—	40	40
Petroleum Coke	—	—	—	514	844	144	1,502
Marketable	—	—	—	514	844	144	1,502
Catalyst	—	—	—	—	—	—	—
Asphalt and Road Oil	78	480	558	2,586	1,232	233	4,051
Miscellaneous Products	14	51	65	80	36	8	124
Total Stocks, All Oils	14,978	2,959	17,937	39,169	8,795	12,552	60,516

See footnotes at end of table.

Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, December 2021
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	2,199	23,135	14,221	1,050	336	40,941	2,536	20,561	82,836
Petroleum Products	10,249	56,506	40,220	3,984	1,279	112,238	10,738	46,913	229,544
Hydrocarbon Gas Liquids	2,515	1,860	2,068	16	67	6,526	408	1,396	13,294
Natural Gas Liquids	1,732	1,652	1,916	16	67	5,383	332	1,346	11,206
Ethane	12	—	—	—	—	12	—	—	12
Propane	293	481	76	2	3	855	47	103	2,182
Normal Butane	1,148	891	1,086	9	52	3,186	164	948	6,372
Isobutane	267	245	315	5	12	844	97	292	1,845
Natural Gasoline	12	35	439	—	—	486	24	3	795
Refinery Olefins	783	208	152	0	0	1,143	76	50	2,088
Ethylene	0	—	—	—	—	0	—	—	0
Propylene	655	36	88	0	0	779	3	16	1,397
Normal Butylene	128	171	49	0	0	348	73	34	646
Isobutylene	0	1	15	0	0	16	0	0	45
Oxygenates/Renewable Fuels/Other Hydrocarbons	49	73	124	55	6	307	137	760	1,600
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	49	73	124	55	6	307	137	760	1,584
Fuel Ethanol	40	36	72	30	3	181	126	155	790
Renewable Diesel Fuel ²	9	37	52	25	3	126	11	605	794
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—	—	16
Unfinished Oils	2,290	21,151	12,457	1,006	597	37,501	2,770	17,418	74,158
Naphthas and Lighter	831	6,162	1,746	339	175	9,253	610	2,841	17,035
Kerosene and Light Gas Oils	337	3,497	1,990	179	137	6,140	556	3,325	13,098
Heavy Gas Oils	707	9,110	6,296	420	285	16,818	1,227	8,244	32,545
Residuum	415	2,382	2,425	68	—	5,290	377	3,008	11,480
Motor Gasoline Blending Components (MGBC)	2,764	12,667	11,076	340	286	27,133	3,273	13,112	59,737
Reformulated - RBOB	181	1,225	124	—	6	1,536	—	4,842	8,601
Conventional	2,583	11,442	10,952	340	280	25,597	3,273	8,270	51,136
CBOB	1,326	3,369	5,800	263	78	10,836	1,868	2,376	21,403
GTAB	—	—	—	—	—	—	—	—	—
Other	1,257	8,073	5,152	77	202	14,761	1,405	5,894	29,733
Aviation Gasoline Blending Components	6	—	19	—	—	25	—	—	25
Finished Motor Gasoline	168	1,973	838	79	—	3,058	877	806	5,672
Reformulated	—	—	—	—	—	—	—	16	16
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	16	16
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	168	1,973	838	79	—	3,058	877	790	5,656
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	64	—	64
Ed55 and Lower	—	—	—	—	—	—	64	—	64
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	168	1,973	838	79	—	3,058	813	790	5,592
Finished Aviation Gasoline	28	203	142	—	—	373	9	211	666
Kerosene-Type Jet Fuel	339	2,557	1,865	56	—	4,817	324	3,392	11,112
Kerosene	34	—	9	3	—	46	1	3	206
Distillate Fuel Oil	1,096	7,121	4,999	431	103	13,750	1,859	4,624	28,572
15 ppm sulfur and under	1,070	6,178	4,177	299	103	11,827	1,659	4,125	25,309
Greater than 15 ppm to 500 ppm sulfur	26	45	160	46	—	277	134	245	782
Greater than 500 ppm sulfur	—	898	662	86	—	1,646	66	254	2,481
Residual Fuel Oil	135	1,859	1,257	20	85	3,356	212	2,070	6,759
Less than 0.31 percent sulfur	24	—	76	—	—	100	22	29	220
0.31 to 1.00 percent sulfur	54	225	254	20	—	553	4	241	1,081
Greater than 1.00 percent sulfur	57	1,634	927	—	85	2,703	186	1,800	5,458
Petrochemical Feedstocks	109	1,233	660	4	—	2,006	—	2	2,540
Naphtha for Petro. Feed. Use	30	795	639	4	—	1,468	—	2	1,882
Other Oils for Petro. Feed. Use	79	438	21	—	—	538	—	—	658
Special Naphthas	87	614	—	141	—	842	—	18	951
Lubricants	40	2,401	2,709	972	—	6,122	—	765	8,097
Waxes	—	88	107	79	—	274	—	—	549
Petroleum Coke	108	2,460	1,278	—	—	3,846	137	1,335	6,820
Marketable	108	2,460	1,278	—	—	3,846	137	1,335	6,820
Catalyst	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	448	59	531	781	111	1,930	714	914	8,167
Miscellaneous Products	33	187	81	1	24	326	17	87	619
Total Stocks, All Oils	12,448	79,641	54,441	5,034	1,615	153,179	13,274	67,474	312,380

— = Not Applicable.

— = No Data Reported.

¹ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

² Renewable diesel fuel includes biodiesel and other renewable diesel.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."

Table 35. Percent Yield of Petroleum Products by PAD and Refining Districts, December 2021

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	1.4	-0.7	1.2	1.3	-2.0	-0.4	0.5
Finished Motor Gasoline ¹	53.0	36.8	51.2	55.4	52.7	53.4	54.6
Finished Aviation Gasoline ²	—	—	—	—	0.2	—	0.0
Kerosene-Type Jet Fuel	11.0	—	9.8	8.4	5.1	3.6	6.9
Kerosene	-0.2	0.2	-0.2	0.2	—	0.4	0.2
Distillate Fuel Oil ³	26.2	24.9	26.1	25.5	32.6	38.2	29.4
Residual Fuel Oil	6.0	0.1	5.3	1.2	1.1	0.5	1.0
Naphtha for Petro. Feed. Use	—	—	—	0.6	—	—	0.4
Other Oils for Petro. Feed. Use	—	—	—	0.5	—	0.1	0.3
Special Naphthas	—	0.1	0.0	-0.1	—	0.1	0.0
Lubricants	1.0	7.6	1.7	—	—	0.7	0.2
Waxes	—	-0.6	-0.1	—	—	0.1	0.0
Petroleum Coke	3.1	0.7	2.9	5.9	5.8	3.7	5.4
Asphalt and Road Oil	1.4	25.3	4.1	3.8	8.0	0.7	3.7
Still Gas	3.8	1.7	3.6	3.6	3.9	4.0	3.7
Miscellaneous Products	0.3	2.1	0.5	0.5	0.8	0.2	0.4
Processing Gain(-) or Loss(+) ⁴	-7.1	1.8	-6.1	-6.8	-8.2	-5.4	-6.6

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	2.2	3.8	4.9	-0.8	-0.2	3.9	0.9	0.3	2.4
Finished Motor Gasoline ¹	53.9	46.2	45.1	31.8	54.3	46.1	49.2	52.5	49.3
Finished Aviation Gasoline ²	0.2	0.1	0.1	—	—	0.1	0.0	0.2	0.1
Kerosene-Type Jet Fuel	7.1	8.4	9.7	1.7	—	8.5	5.0	17.6	9.2
Kerosene	0.0	0.1	0.0	0.2	—	0.0	—	0.0	0.1
Distillate Fuel Oil ³	30.8	31.1	33.3	37.9	38.2	32.1	33.6	21.1	29.8
Residual Fuel Oil	1.2	0.5	0.6	-0.1	3.9	0.6	1.9	3.2	1.3
Naphtha for Petro. Feed. Use	0.6	2.6	1.3	0.0	—	1.9	—	—	1.1
Other Oils for Petro. Feed. Use	0.1	1.0	1.0	—	—	0.9	—	—	0.6
Special Naphthas	0.4	0.4	—	2.0	—	0.3	—	0.0	0.2
Lubricants	0.1	1.2	1.6	9.8	—	1.5	—	0.8	1.0
Waxes	—	0.0	0.1	0.3	—	0.1	—	—	0.0
Petroleum Coke	2.2	5.5	5.2	2.1	0.8	5.0	3.7	5.9	5.1
Asphalt and Road Oil	1.0	0.1	0.6	14.1	1.6	0.7	5.8	1.1	1.8
Still Gas	3.9	4.5	3.5	3.9	2.4	4.0	3.6	5.4	4.1
Miscellaneous Products	0.7	0.7	0.5	0.0	1.0	0.6	0.7	0.6	0.6
Processing Gain(-) or Loss(+) ⁴	-4.3	-6.1	-7.4	-3.3	-2.5	-6.3	-4.5	-8.6	-6.6

— = No Data Reported.

¹ Based on net production of finished motor gasoline minus input of natural gas plant liquids, fuel ethanol, oxygenates, and net input of motor gasoline blending components.

² Based on finished aviation gasoline net production minus net input of aviation gasoline blending components.

³ Based on distillate fuel oil net production minus input of biodiesel, "other" renewable diesel fuels, and "other" renewable fuels.

⁴ Represents the arithmetic difference between input and production.

Note: Percent yield is calculated as net production (or adjusted net production) divided by input of crude oil, hydrogen, "other" hydrocarbons, and net input of unfinished oils.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Calculated from data on Tables 30 and 31.

Table 36. Imports of Residual Fuel Oil by Sulfur Content and by PAD District and State of Entry, December 2021
(Thousand Barrels)

PAD District and State of Entry	Residual Fuel Oil			
	Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
PAD District 1	933	875	756	2,564
Connecticut	—	—	—	—
Delaware	—	—	—	—
Florida	—	239	177	416
Georgia	—	—	—	—
Maine	—	—	—	—
Maryland	—	—	—	—
Massachusetts	—	—	—	—
New Hampshire	—	—	—	—
New Jersey	613	636	579	1,828
New York	320	—	—	320
North Carolina	—	—	—	—
Pennsylvania	—	—	—	—
Rhode Island	—	—	—	—
South Carolina	—	—	—	—
Vermont	—	—	—	—
Virginia	—	—	—	—
West Virginia	—	—	—	—
PAD District 2	—	11	110	121
Illinois	—	—	—	—
Indiana	—	—	—	—
Michigan	—	—	19	19
Minnesota	—	10	—	10
North Dakota	—	1	91	92
Ohio	—	—	—	—
Wisconsin	—	—	—	—
PAD District 3	—	—	3,546	3,546
Alabama	—	—	—	—
Louisiana	—	—	328	328
Mississippi	—	—	852	852
New Mexico	—	—	—	—
Texas	—	—	2,366	2,366
PAD District 4	—	—	—	—
Idaho	—	—	—	—
Montana	—	—	—	—
PAD District 5	—	36	215	251
Alaska	—	—	—	—
California	—	—	172	172
Hawaii	—	—	—	—
Oregon	—	—	—	—
Washington	—	36	43	79
U.S. Total	933	922	4,627	6,482

— = No Data Reported.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 37. Imports of Crude Oil and Petroleum Products by PAD District, December 2021
(Thousand Barrels, Except Where Noted)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	21,196	90,699	42,276	10,493	34,404	199,068	6,422
Hydrocarbon Gas Liquids	2,047	2,439	—	694	1,367	6,547	211
Natural Gas Liquids	1,715	2,271	—	694	1,367	6,047	195
Ethane	—	—	—	—	—	—	—
Propane	1,545	1,916	—	528	869	4,858	157
Normal Butane	112	253	—	166	498	1,029	33
Isobutane	58	97	—	—	—	155	5
Natural Gasoline	—	5	—	—	—	5	0
Refinery Olefins	332	168	—	—	—	500	16
Ethylene	—	—	—	—	—	—	—
Propylene	332	109	—	—	—	441	14
Normal Butylene	—	59	—	—	—	59	2
Isobutylene	—	—	—	—	—	—	—
Other Liquids	16,812	539	13,116	7	2,351	32,825	1,059
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	196	115	93	4	608	1,020	33
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
Other Oxygenates ³	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	196	115	93	4	608	1,016	33
Fuel Ethanol	—	—	—	—	—	—	—
Biodiesel	196	115	93	4	115	523	17
Other Renewable Diesel Fuel	—	—	—	—	493	493	16
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	4	—	—	4	0
Unfinished Oils ¹	909	—	12,885	—	938	14,732	475
Naphthas and Lighter	195	—	—	—	—	195	6
Kerosene and Lighter Gas Oils	—	—	23	—	—	23	1
Heavy Gas Oils	714	—	5,169	—	938	6,821	220
Residuum	—	—	7,693	—	—	7,693	248
Motor Gasoline Blend Comp. (MGBC)	15,707	424	134	3	805	17,073	551
Reformulated - RBOB	8,599	—	—	—	—	8,599	277
Conventional	7,108	424	134	3	805	8,474	273
CBOB	1,227	123	—	—	—	1,350	44
GTAB	2,383	—	—	—	—	2,383	77
Other	3,498	301	134	3	805	4,741	153
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	15,870	1,958	5,696	232	3,032	26,788	864
Finished Motor Gasoline	1,060	—	—	—	618	1,678	54
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	1,060	—	—	—	618	1,678	54
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	1,060	—	—	—	618	1,678	54
Finished Aviation Gasoline	19	3	24	—	—	46	1
Kerosene-Type Jet Fuel	2,671	—	—	36	1,730	4,437	143
Bonded Aircraft Fuel	74	—	—	—	618	692	22
Other	2,597	—	—	36	1,112	3,745	121
Kerosene	—	6	—	—	—	6	0
Distillate Fuel Oil	8,020	354	220	124	320	9,038	292
15 ppm sulfur and under	8,020	354	—	124	320	8,818	284
Bonded	—	—	—	2	—	2	0
Other	8,020	354	—	122	320	8,816	284
Greater than 15 ppm to 500 ppm sulfur	—	—	—	—	—	—	—
Bonded	—	—	—	—	—	—	—
Other	—	—	—	—	—	—	—
Greater than 500 ppm to 2000 ppm sulfur	—	—	220	—	—	220	7
Bonded	—	—	—	—	—	—	—
Other	—	—	220	—	—	220	7
Greater than 2000 ppm	—	—	—	—	—	—	—
Bonded	—	—	—	—	—	—	—
Other	—	—	—	—	—	—	—
Residual Fuel Oil	2,564	121	3,546	—	251	6,482	209
Less than 0.31 percent sulfur	933	—	—	—	—	933	30
0.31 to 1.00 percent sulfur	875	11	—	—	36	922	30
Greater than 1.00 percent sulfur	756	110	3,546	—	215	4,627	149
Petrochemical Feedstocks	212	150	427	—	—	789	25
Naphtha for Petro. Feed. Use	212	84	365	—	—	661	21
Other Oils for Petro. Feed. Use	—	66	62	—	—	128	4
Special Naphthas	112	8	267	—	—	387	12
Lubricants	148	225	867	—	—	1,240	40
Waxes	137	9	62	—	70	278	9
Petroleum Coke (Marketable)	4	25	253	—	—	282	9
Asphalt and Road Oil	923	1,057	30	71	43	2,124	69
Miscellaneous Products	—	—	—	1	—	1	0
Total	55,925	95,635	61,088	11,426	41,154	265,228	8,556

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 38. Year-to-Date Imports of Crude Oil and Petroleum Products by PAD District, January-December 2021
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	209,684	931,467	553,507	110,082	425,260	2,230,000	6,110
Hydrocarbon Gas Liquids	14,879	25,792	54	5,649	16,751	63,125	173
Natural Gas Liquids	11,662	23,066	—	5,649	16,751	57,128	157
Ethane	—	—	—	—	—	—	—
Propane	10,363	16,462	—	4,645	9,995	41,465	114
Normal Butane	995	4,557	—	935	6,750	13,237	36
Isobutane	304	1,979	—	69	6	2,358	6
Natural Gasoline	—	68	—	—	—	68	0
Refinery Olefins	3,217	2,726	54	—	—	5,997	16
Ethylene	—	—	—	—	—	—	—
Propylene	3,217	2,026	—	—	—	5,243	14
Normal Butylene	—	680	54	—	—	734	2
Isobutylene	—	20	—	—	—	20	0
Other Liquids	232,866	5,513	185,101	998	49,040	473,518	1,297
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	1,995	1,156	403	286	11,884	15,724	43
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
Other Oxygenates ³	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	1,995	1,156	325	286	11,884	15,646	43
Fuel Ethanol	—	—	—	—	1,447	1,447	4
Biodiesel	1,995	1,156	275	286	1,120	4,832	13
Other Renewable Diesel Fuel	—	—	50	—	9,290	9,340	26
Other Renewable Fuels	—	—	—	—	27	27	0
Other Hydrocarbons	—	—	78	—	—	78	0
Unfinished Oils ¹	20,493	—	161,500	197	21,054	203,244	557
Naphthas and Lighter	3,402	—	104	—	346	3,852	11
Kerosene and Lighter Gas Oils	—	—	166	119	122	407	1
Heavy Gas Oils	17,091	—	65,051	78	20,266	102,486	281
Residuum	—	—	96,179	—	320	96,499	264
Motor Gasoline Blend Comp. (MGBC)	210,378	4,357	23,198	515	16,102	254,550	697
Reformulated - RBOB	79,790	—	307	—	901	80,998	222
Conventional	130,588	4,357	22,891	515	15,201	173,552	475
CBOB	11,137	999	378	—	1,499	14,013	38
GTAB	42,668	153	617	—	2,234	45,672	125
Other	76,783	3,205	21,896	515	11,468	113,867	312
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	174,270	18,413	69,575	3,238	58,771	324,267	888
Finished Motor Gasoline	29,365	100	1,350	—	8,825	39,640	109
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	29,365	100	1,350	—	8,825	39,640	109
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	29,365	100	1,350	—	8,825	39,640	109
Finished Aviation Gasoline	145	48	237	34	11	475	1
Kerosene-Type Jet Fuel	22,705	37	—	484	34,293	57,519	158
Bonded Aircraft Fuel	418	—	—	—	4,801	5,219	14
Other	22,287	37	—	484	29,492	52,300	143
Kerosene	256	41	—	—	—	297	1
Distillate Fuel Oil	91,096	2,821	1,706	2,004	7,224	104,851	287
15 ppm sulfur and under	91,076	2,789	1,086	2,004	5,655	102,610	281
Bonded	145	—	—	2	—	147	0
Other	90,931	2,789	1,086	2,002	5,655	102,463	281
Greater than 15 ppm to 500 ppm sulfur	20	16	—	—	1,569	1,605	4
Bonded	—	—	—	—	—	—	—
Other	20	16	—	—	1,569	1,605	4
Greater than 500 ppm to 2000 ppm sulfur	—	16	620	—	—	636	2
Bonded	—	—	—	—	—	—	—
Other	—	16	620	—	—	636	2
Greater than 2000 ppm	—	—	—	—	—	—	—
Bonded	—	—	—	—	—	—	—
Other	—	—	—	—	—	—	—
Residual Fuel Oil	16,698	1,782	42,651	—	6,772	67,903	186
Less than 0.31 percent sulfur	1,259	—	1,662	—	—	2,921	8
0.31 to 1.00 percent sulfur	6,055	625	2,194	—	3,167	12,041	33
Greater than 1.00 percent sulfur	9,384	1,157	38,795	—	3,605	52,941	145
Petrochemical Feedstocks	1,006	1,608	3,834	—	307	6,755	19
Naphtha for Petro. Feed. Use	994	869	3,319	—	307	5,489	15
Other Oils for Petro. Feed. Use	12	739	515	—	—	1,266	3
Special Naphthas	141	110	3,652	—	—	3,903	11
Lubricants	1,816	2,528	12,179	—	323	16,846	46
Waxes	1,250	191	489	—	354	2,284	6
Petroleum Coke (Marketable)	83	331	3,349	—	—	3,763	10
Asphalt and Road Oil	9,708	8,816	128	704	662	20,018	55
Miscellaneous Products	1	—	—	12	—	13	0
Total	631,699	981,185	808,237	119,967	549,822	3,090,910	8,468

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, December 2021
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reform-ulated	Conven-tional	Total	Reform-ulated	Conven-tional	Total
OPEC	28,090	311	-	1,868	-	-	-	-	-	-
Algeria	-	-	-	408	-	-	-	-	-	-
Angola	50	25	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	286	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	6,927	-	-	-	-	-	-	-	-	-
Kuwait	360	-	-	-	-	-	-	-	-	-
Libya	1,702	-	-	18	-	-	-	-	-	-
Nigeria	3,422	-	-	-	-	-	-	-	-	-
Saudi Arabia	14,632	-	-	1,442	-	-	-	-	-	-
United Arab Emirates	997	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	170,978	5,736	500	12,864	-	1,678	1,678	8,599	8,474	17,073
Argentina	1,904	-	-	50	-	-	-	-	162	162
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	622	622	-	315	315
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	156	-	156
Brazil	2,619	-	-	30	-	-	-	-	357	357
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	126,634	5,734	500	385	-	351	351	3,605	1,290	4,895
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	6,576	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Ecuador	6,303	-	-	346	-	-	-	-	-	-
Egypt	-	-	-	903	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	212	-	-	-	164	285	449
Germany	-	-	-	-	-	-	-	-	22	22
Guatemala	281	-	-	-	-	-	-	-	-	-
India	-	-	-	369	-	-	-	24	1,830	1,854
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	334	334	324	314	638
Korea, South	-	2	-	-	-	272	272	-	227	227
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	2	2	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	15,256	-	-	1,615	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	1,449	573	2,022
Norway	2,650	-	-	-	-	-	-	319	-	319
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	2,792	-	-	7,923	-	-	-	-	798	798
Spain	-	-	-	-	-	-	-	-	543	543
Sweden	-	-	-	-	-	97	97	-	614	614
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	861	-	-	-	-	-	-	-	-	-
United Kingdom	913	-	-	-	-	-	-	2,558	390	2,948
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	4,189	0	0	1,031	-	0	0	0	754	754
Total	199,068	6,047	500	14,732	-	1,678	1,678	8,599	8,474	17,073
Persian Gulf³	22,916	-	-	1,442	-	-	-	-	-	-

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, December 2021
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	--	--	-	-	-	-	374	-	-	-	374
Algeria	--	--	-	-	-	-	-	-	-	-	-
Angola	--	--	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	--	--	-	-	-	-	-	-	-	-	-
Equatorial Guinea	--	--	-	-	-	-	-	-	-	-	-
Gabon	--	--	-	-	-	-	-	-	-	-	-
Iran	--	--	-	-	-	-	-	-	-	-	-
Iraq	--	--	-	-	-	-	-	-	-	-	-
Kuwait	--	--	-	-	-	-	-	-	-	-	-
Libya	--	--	-	-	-	-	-	-	-	-	-
Nigeria	--	--	-	-	-	-	-	-	-	-	-
Saudi Arabia	--	--	-	-	-	-	374	-	-	-	374
United Arab Emirates	--	--	-	-	-	-	-	-	-	-	-
Venezuela	--	--	-	-	-	-	-	-	-	-	-
Non-OPEC	--	--	-	523	493	-	8,444	-	220	-	8,664
Argentina	--	--	-	-	-	-	-	-	-	-	-
Aruba	--	--	-	-	-	-	-	-	-	-	-
Australia	--	--	-	-	-	-	-	-	-	-	-
Bahamas	--	--	-	-	-	-	-	-	-	-	-
Bahrain	--	--	-	-	-	-	-	-	-	-	-
Belgium	--	--	-	-	-	-	-	-	-	-	-
Brazil	--	--	-	-	-	-	-	-	-	-	-
Brunei	--	--	-	-	-	-	-	-	-	-	-
Cameroon	--	--	-	-	-	-	-	-	-	-	-
Canada	--	--	-	349	-	-	5,101	-	220	-	5,321
Chad	--	--	-	-	-	-	-	-	-	-	-
China	--	--	-	-	-	-	-	-	-	-	-
Colombia	--	--	-	-	-	-	276	-	-	-	276
Denmark	--	--	-	-	-	-	-	-	-	-	-
Ecuador	--	--	-	-	-	-	-	-	-	-	-
Egypt	--	--	-	-	-	-	-	-	-	-	-
Estonia	--	--	-	-	-	-	-	-	-	-	-
Finland	--	--	-	-	-	-	-	-	-	-	-
France	--	--	-	-	-	-	-	-	-	-	-
Germany	--	--	-	-	-	-	-	-	-	-	-
Guatemala	--	--	-	-	-	-	-	-	-	-	-
India	--	--	-	-	-	-	-	-	-	-	-
Indonesia	--	--	-	-	-	-	-	-	-	-	-
Italy	--	--	-	80	-	-	-	-	-	-	-
Korea, South	--	--	-	66	-	-	800	-	-	-	800
Latvia	--	--	-	-	-	-	-	-	-	-	-
Lithuania	--	--	-	-	-	-	-	-	-	-	-
Malaysia	--	--	-	-	-	-	752	-	-	-	752
Mexico	--	--	-	-	-	-	-	-	-	-	-
Netherlands	--	--	-	-	-	-	-	-	-	-	-
Norway	--	--	-	-	-	-	-	-	-	-	-
Oman	--	--	-	-	-	-	808	-	-	-	808
Portugal	--	--	-	-	-	-	-	-	-	-	-
Qatar	--	--	-	-	-	-	184	-	-	-	184
Russia	--	--	-	-	-	-	337	-	-	-	337
Spain	--	--	-	28	-	-	-	-	-	-	-
Sweden	--	--	-	-	-	-	-	-	-	-	-
Syria	--	--	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	--	--	-	-	-	-	-	-	-	-	-
United Kingdom	--	--	-	-	-	-	-	-	-	-	-
Vietnam	--	--	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	--	--	-	-	-	-	-	-	-	-	-
Yemen	--	--	-	-	-	-	-	-	-	-	-
Other	--	--	-	0	493	-	186	-	0	-	186
Total	--	--	-	523	493	-	8,818	-	220	-	9,038
Persian Gulf³	--	--	-	-	-	-	558	-	-	-	558

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, December 2021
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	1,286	—	613	214	—	827
Algeria	—	—	—	—	—	613	199	—	812
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	15	—	15
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	695	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	591	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	6	46	—	3,151	387	320	708	4,627	5,655
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	372	307	679
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	21	—	27	—	27
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	6	4	—	503	284	—	97	580	677
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	211	211
Denmark	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	153	153
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	320	—	—	320
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	696	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	1,424	41	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	2,964	2,964
Netherlands	—	42	—	—	—	—	3	48	51
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Russia	—	—	—	234	—	—	—	364	364
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	0	0	—	294	41	0	209	0	209
Total	6	46	—	4,437	387	933	922	4,627	6,482
Persian Gulf[§]	—	—	—	1,286	—	—	—	—	—

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, December 2021
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	—	—	—	—	—	172	—	4,838	32,928	906	156	1,062
Algeria	—	—	—	—	—	—	—	1,220	1,220	—	39	39
Angola	—	—	—	—	—	—	—	25	75	2	1	2
Congo (Brazzaville)	—	—	—	—	—	—	—	15	15	—	0	0
Equatorial Guinea	—	—	—	—	—	—	—	286	286	—	9	9
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	6,927	223	—	223
Kuwait	—	—	—	—	—	—	—	695	1,055	12	22	34
Libya	—	—	—	—	—	—	—	18	1,720	55	1	55
Nigeria	—	—	—	—	—	—	—	—	3,422	110	—	110
Saudi Arabia	—	—	—	—	—	—	—	2,407	17,039	472	78	550
United Arab Emirates	—	—	—	—	—	172	—	172	1,169	32	6	38
Venezuela	—	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	661	128	278	282	2,124	1,068	1	61,322	232,300	5,515	1,978	7,494
Argentina	75	14	—	175	—	4	—	480	2,384	61	15	77
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	1,616	1,616	—	52	52
Bahrain	—	—	—	—	—	94	—	94	94	—	3	3
Belgium	—	—	—	—	—	3	—	159	159	—	5	5
Brazil	—	—	—	79	—	—	—	514	3,133	84	17	101
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	86	66	79	26	2,058	299	1	21,624	148,258	4,085	698	4,783
Chad	—	—	—	—	—	—	—	—	—	—	—	—
China	—	—	60	—	—	—	—	60	60	—	2	2
Colombia	—	—	—	—	—	—	—	487	7,063	212	16	228
Denmark	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	499	6,802	203	16	219
Egypt	—	—	—	—	—	—	—	903	903	—	29	29
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—	—
France	—	48	—	—	—	12	—	721	721	—	23	23
Germany	—	—	—	—	—	11	—	353	353	—	11	11
Guatemala	—	—	—	—	—	—	—	—	281	9	—	9
India	—	—	—	—	—	1	—	2,920	2,920	—	94	94
Indonesia	—	—	—	—	—	67	—	67	67	—	2	2
Italy	—	—	19	—	—	6	—	1,077	1,077	—	35	35
Korea, South	45	—	—	—	—	296	—	3,173	3,173	—	102	102
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	2	2	—	0	0
Malaysia	—	—	15	—	—	—	—	767	767	—	25	25
Mexico	154	—	—	—	—	—	—	4,733	19,989	492	153	645
Netherlands	—	—	—	—	—	74	—	2,189	2,189	—	71	71
Norway	—	—	—	—	—	—	—	319	2,969	85	10	96
Oman	—	—	—	—	—	—	—	808	808	—	26	26
Portugal	—	—	—	—	—	—	—	—	—	—	—	—
Qatar	13	—	—	—	—	172	—	369	369	—	12	12
Russia	120	—	—	—	—	1	—	9,777	12,569	90	315	405
Spain	—	—	1	—	—	12	—	584	584	—	19	19
Sweden	—	—	—	—	—	—	—	711	711	—	23	23
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	861	28	—	28
United Kingdom	3	—	27	—	—	—	—	2,978	3,891	29	96	126
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	165	0	77	2	66	16	0	3,338	7,527	137	108	243
Total	661	128	278	282	2,124	1,240	1	66,160	265,228	6,422	2,134	8,556
Persian Gulf³	13	—	—	—	—	438	—	3,737	26,653	739	121	860

— = Not Applicable.

1 = No Data Reported.

1 Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

2 Includes crude oil imported for storage in the Strategic Petroleum Reserve.

3 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-December 2021
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reform-ulated	Conven-tional	Total	Reform-ulated	Conven-tional	Total
OPEC	290,450	975	-	19,729	-	1,276	1,276	1,096	11,336	12,432
Algeria	6,549	-	-	5,373	-	-	-	-	326	326
Angola	11,658	135	-	323	-	-	-	-	972	972
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	696	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	6	6
Iran	1,033	-	-	-	-	-	-	-	-	-
Iraq	55,360	-	-	1,917	-	-	-	-	-	-
Kuwait	7,595	-	-	49	-	-	-	-	-	-
Libya	32,695	-	-	233	-	-	-	-	-	-
Nigeria	39,412	144	-	101	-	40	40	-	2,692	2,692
Saudi Arabia	130,069	-	-	9,980	-	1,236	1,236	1,096	6,351	7,447
United Arab Emirates	6,079	-	-	1,753	-	-	-	-	989	989
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	1,939,550	56,153	5,997	183,515	-	38,364	38,364	79,902	162,216	242,118
Argentina	10,130	55	-	62	-	191	191	-	1,283	1,283
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	699	699	-	920	920
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	1,498	-	923	923	2,887	3,815	6,702
Brazil	37,804	-	-	57	-	512	512	313	8,923	9,236
Brunei	9,160	-	-	-	-	-	-	-	-	-
Cameroon	1,600	-	-	-	-	-	-	-	-	-
Canada	1,371,700	55,647	5,943	2,757	-	6,790	6,790	37,106	13,679	50,785
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	65,581	-	-	440	-	-	-	-	3	3
Denmark	-	-	-	-	-	79	79	123	96	219
Ecuador	54,018	-	-	5,344	-	-	-	-	-	-
Egypt	-	-	-	10,133	-	-	-	-	-	-
Estonia	-	-	-	126	-	-	-	-	-	-
Finland	-	-	-	104	-	319	319	-	6,830	6,830
France	-	-	-	1,472	-	159	159	3,471	5,067	8,538
Germany	-	-	-	259	-	215	215	13	723	736
Guatemala	1,124	-	-	-	-	-	-	-	-	-
India	-	-	-	529	-	1,517	1,517	24	22,172	22,196
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	764	-	2,781	2,781	1,183	10,368	11,551
Korea, South	-	9	-	84	-	4,615	4,615	-	5,938	5,938
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	424	424	-	986	986
Malaysia	-	-	-	379	-	-	-	-	290	290
Mexico	212,734	-	54	17,999	-	-	-	-	705	705
Netherlands	-	-	-	488	-	5,812	5,812	14,736	15,773	30,509
Norway	17,656	253	-	916	-	853	853	4,198	2,179	6,377
Oman	-	-	-	-	-	-	-	-	33	33
Portugal	-	-	-	-	-	875	875	1,988	7,537	9,525
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	72,608	-	-	129,362	-	5,183	5,183	1,035	17,383	18,418
Spain	-	-	-	8	-	966	966	57	8,738	8,795
Sweden	-	-	-	125	-	266	266	281	4,967	5,248
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	14,378	74	-	-	-	-	-	-	-	-
United Kingdom	14,948	-	-	1,487	-	1,033	1,033	12,034	7,465	19,499
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	2,674	-	469	469	-	1,831	1,831
Yemen	-	-	-	-	-	-	-	-	-	-
Other	56,109	115	0	6,448	-	3,683	3,683	453	14,512	14,965
Total	2,230,000	57,128	5,997	203,244	-	39,640	39,640	80,998	173,552	254,550
Persian Gulf³	200,136	-	-	13,699	-	1,236	1,236	1,096	7,340	8,436

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-December 2021
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total
OPEC	--	--	-	-	-	-	11,097	-	-	-	11,097
Algeria	--	--	-	-	-	-	-	-	-	-	-
Angola	--	--	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	--	--	-	-	-	-	-	-	-	-	-
Equatorial Guinea	--	--	-	-	-	-	-	-	-	-	-
Gabon	--	--	-	-	-	-	24	-	-	-	24
Iran	--	--	-	-	-	-	-	-	-	-	-
Iraq	--	--	-	-	-	-	-	-	-	-	-
Kuwait	--	--	-	-	-	-	1,320	-	-	-	1,320
Libya	--	--	-	-	-	-	-	-	-	-	-
Nigeria	--	--	-	-	-	-	3,194	-	-	-	3,194
Saudi Arabia	--	--	-	-	-	-	5,125	-	-	-	5,125
United Arab Emirates	--	--	-	-	-	-	1,434	-	-	-	1,434
Venezuela	--	--	-	-	-	-	-	-	-	-	-
Non-OPEC	--	--	1,447	4,832	9,340	27	91,513	1,605	636	-	93,754
Argentina	--	--	-	-	-	-	-	-	-	-	-
Aruba	--	--	-	-	-	-	-	-	-	-	-
Australia	--	--	-	-	-	-	-	-	-	-	-
Bahamas	--	--	-	-	-	-	-	-	-	-	-
Bahrain	--	--	-	-	-	-	308	-	-	-	308
Belgium	--	--	-	-	-	-	4,948	-	-	-	4,948
Brazil	--	--	1,447	-	-	-	41	-	-	-	41
Brunei	--	--	-	-	-	-	-	-	-	-	-
Cameroon	--	--	-	-	-	-	-	-	-	-	-
Canada	--	--	-	3,075	-	27	46,234	36	236	-	46,506
Chad	--	--	-	-	-	-	-	-	-	-	-
China	--	--	-	-	-	-	-	-	-	-	-
Colombia	--	--	-	-	-	-	6,206	-	-	-	6,206
Denmark	--	--	-	-	-	-	40	-	-	-	40
Ecuador	--	--	-	-	-	-	-	-	-	-	-
Egypt	--	--	-	-	-	-	-	-	-	-	-
Estonia	--	--	-	-	-	-	-	-	-	-	-
Finland	--	--	-	-	-	-	204	-	-	-	204
France	--	--	-	-	-	-	265	-	-	-	265
Germany	--	--	-	647	-	-	-	-	-	-	-
Guatemala	--	--	-	-	-	-	-	-	-	-	-
India	--	--	-	-	-	-	5,478	-	-	-	5,478
Indonesia	--	--	-	-	-	-	143	-	-	-	143
Italy	--	--	-	80	-	-	219	-	-	-	219
Korea, South	--	--	-	563	-	-	2,032	1,569	-	-	3,601
Latvia	--	--	-	-	-	-	-	-	-	-	-
Lithuania	--	--	-	-	-	-	-	-	-	-	-
Malaysia	--	--	-	-	-	-	1,069	-	-	-	1,069
Mexico	--	--	-	-	-	-	71	-	-	-	71
Netherlands	--	--	-	-	19	-	6,581	-	-	-	6,581
Norway	--	--	-	-	-	-	-	-	-	-	-
Oman	--	--	-	-	-	-	2,445	-	-	-	2,445
Portugal	--	--	-	-	-	-	258	-	-	-	258
Qatar	--	--	-	-	-	-	4,213	-	-	-	4,213
Russia	--	--	-	-	-	-	8,513	-	-	-	8,513
Spain	--	--	-	467	-	-	62	-	-	-	62
Sweden	--	--	-	-	-	-	324	-	-	-	324
Syria	--	--	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	--	--	-	-	-	-	-	-	-	-	-
United Kingdom	--	--	-	-	-	-	-	-	-	-	-
Vietnam	--	--	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	--	--	-	-	-	-	814	-	400	-	1,214
Yemen	--	--	-	-	-	-	-	-	-	-	-
Other	--	--	0	0	9,321	0	1,045	0	0	-	1,045
Total	--	--	1,447	4,832	9,340	27	102,610	1,605	636	-	104,851
Persian Gulf³	--	--	-	-	-	-	12,400	-	-	-	12,400

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-December 2021
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	8,536	325	739	626	782	2,147
Algeria	—	—	—	1,202	—	739	236	—	975
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	271	—	271
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	97	—	97
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	2,347	—	—	—	608	608
Libya	—	—	—	157	—	—	22	—	22
Nigeria	—	—	—	66	—	—	—	—	—
Saudi Arabia	—	—	—	2,097	325	—	—	174	174
United Arab Emirates	—	—	—	2,667	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	297	475	—	48,983	3,578	2,182	11,415	52,159	65,756
Argentina	—	—	—	—	—	—	346	—	346
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	473	3,357	3,830
Bahrain	—	—	—	—	—	—	—	235	235
Belgium	—	—	—	287	—	2	—	8	10
Brazil	—	—	—	—	253	—	320	1,379	1,699
Brunei	—	—	—	313	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	45	105	—	4,522	1,159	582	1,822	6,644	9,048
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	907	—	—	—	—	—
Colombia	—	—	—	125	—	—	210	1,320	1,530
Denmark	—	—	—	—	—	—	92	—	92
Ecuador	—	—	—	—	—	—	—	1,941	1,941
Egypt	—	—	—	—	—	—	10	1,703	1,713
Estonia	—	76	—	—	—	—	192	—	192
Finland	—	—	—	—	—	—	34	—	34
France	—	—	—	309	—	—	—	—	—
Germany	—	—	—	—	—	320	364	98	782
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	5,657	224	—	—	728	728
Indonesia	—	—	—	2	—	—	—	—	—
Italy	—	—	—	1,370	—	—	301	264	565
Korea, South	—	—	—	28,986	1,271	—	—	6	6
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	72	—	858	25,534	26,392
Netherlands	—	294	—	300	19	—	215	586	801
Norway	—	—	—	—	—	—	—	129	129
Oman	—	—	—	415	—	—	—	—	—
Portugal	—	—	—	50	—	—	—	—	—
Qatar	—	—	—	1	—	—	—	—	—
Russia	—	—	—	518	—	903	3,182	5,904	9,989
Spain	—	—	—	—	—	—	216	—	216
Sweden	—	—	—	—	—	—	86	—	86
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	460	—	460
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	426	—	375	923	21	1,319
Yemen	—	—	—	—	—	—	—	—	—
Other	252	0	—	4,795	580	0	1,311	2,302	3,613
Total	297	475	—	57,519	3,903	2,921	12,041	52,941	67,903
Persian Gulf³	—	—	—	7,112	325	—	—	1,017	1,017

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-December 2021
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	50	—	—	451	—	1,686	—	58,704	349,154	796	161	957
Algeria	—	—	—	—	—	—	—	7,876	14,425	18	22	40
Angola	—	—	—	—	—	—	—	1,430	13,088	32	4	36
Congo (Brazzaville)	—	—	—	—	—	—	—	271	271	—	1	1
Equatorial Guinea	—	—	—	—	—	—	—	696	696	—	2	2
Gabon	—	—	—	—	—	—	—	127	127	—	0	0
Iran	—	—	—	—	—	—	—	—	1,033	3	—	3
Iraq	—	—	—	—	—	—	—	1,917	57,277	152	5	157
Kuwait	—	—	—	157	—	—	—	4,481	12,076	21	12	33
Libya	—	—	—	—	—	—	—	412	33,107	90	1	91
Nigeria	50	—	—	—	—	—	—	6,287	45,699	108	17	125
Saudi Arabia	—	—	—	294	—	128	—	26,806	156,875	356	73	430
United Arab Emirates	—	—	—	—	—	1,558	—	8,401	14,480	17	23	40
Venezuela	—	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	5,439	1,266	2,284	3,312	20,018	15,160	13	802,206	2,741,756	5,314	2,198	7,512
Argentina	176	175	—	1,385	—	33	—	3,706	13,836	28	10	38
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	5,449	5,449	—	15	15
Bahrain	—	—	—	—	—	908	—	1,451	1,451	—	4	4
Belgium	201	—	—	—	—	94	—	14,663	14,663	—	40	40
Brazil	—	—	—	1,180	—	—	—	14,425	52,229	104	40	143
Brunei	—	—	—	—	—	—	—	313	9,473	25	1	26
Cameroon	—	—	—	—	—	—	—	—	1,600	4	—	4
Canada	915	856	1,078	331	19,178	3,789	13	212,569	1,584,269	3,758	582	4,340
Chad	—	—	—	—	—	—	—	—	—	—	—	—
China	—	—	322	—	—	—	—	1,229	1,229	—	3	3
Colombia	—	—	—	—	300	—	—	8,604	74,185	180	24	203
Denmark	—	—	—	—	—	—	—	430	430	—	1	1
Ecuador	—	—	—	—	—	—	—	7,285	61,303	148	20	168
Egypt	—	—	—	—	—	—	—	11,846	11,846	—	32	32
Estonia	—	—	—	—	—	—	—	394	394	—	1	1
Finland	45	—	—	—	—	—	—	7,536	7,536	—	21	21
France	11	235	13	—	—	157	—	11,159	11,159	—	31	31
Germany	19	—	—	1	1	132	—	2,792	2,792	—	8	8
Guatemala	—	—	—	—	—	—	—	—	1,124	3	—	3
India	—	—	—	—	—	2	—	36,331	36,331	—	100	100
Indonesia	46	—	—	—	—	1,180	—	1,371	1,371	—	4	4
Italy	—	—	53	—	41	144	—	17,568	17,568	—	48	48
Korea, South	259	—	6	—	—	3,548	—	48,886	48,886	—	134	134
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	1,410	1,410	—	4	4
Malaysia	—	—	159	—	—	1	—	1,898	1,898	—	5	5
Mexico	1,467	—	—	—	—	2	—	46,762	259,496	583	128	711
Netherlands	55	—	21	69	—	1,096	—	46,117	46,117	—	126	126
Norway	—	—	—	—	—	—	—	8,528	26,184	48	23	72
Oman	—	—	—	114	—	49	—	3,056	3,056	—	8	8
Portugal	—	—	—	—	—	—	—	10,708	10,708	—	29	29
Qatar	13	—	—	—	—	3,702	—	7,929	7,929	—	22	22
Russia	327	—	—	158	—	118	—	172,586	245,194	199	473	672
Spain	—	—	17	—	189	32	—	10,752	10,752	—	29	29
Sweden	—	—	—	7	—	3	—	6,059	6,059	—	17	17
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	74	14,452	39	0	40
United Kingdom	166	—	163	22	—	84	—	22,914	37,862	41	63	104
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	177	—	—	—	—	—	—	8,110	8,110	—	22	22
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	1,562	0	452	45	309	86	0	47,296	103,405	154	130	284
Total	5,489	1,266	2,284	3,763	20,018	16,846	13	860,910	3,090,910	6,110	2,359	8,468
Persian Gulf³	13	—	—	451	—	6,296	—	50,985	251,121	548	140	688

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2021
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	7,335	243	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	50	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	243	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	1,702	-	-	-	-	-	-	-	-	-
Nigeria	3,422	-	-	-	-	-	-	-	-	-
Saudi Arabia	2,161	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	13,861	1,472	332	909	-	1,060	1,060	8,599	7,108	15,707
Argentina	-	-	-	50	-	-	-	-	162	162
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	313	313	-	315	315
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	156	-	156
Brazil	-	-	-	-	-	-	-	-	312	312
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	5,868	1,472	332	-	-	314	314	3,605	863	4,468
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	164	285	449
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	24	1,830	1,854
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	334	334	324	314	638
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	2	2	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	994	-	-	331	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	1,449	555	2,004
Norway	2,650	-	-	-	-	-	-	319	-	319
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	2,087	-	-	383	-	-	-	-	486	486
Spain	-	-	-	-	-	-	-	-	543	543
Sweden	-	-	-	-	-	97	97	-	614	614
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	2,558	390	2,948
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	2,262	0	0	145	-	0	0	0	439	439
Total	21,196	1,715	332	909	-	1,060	1,060	8,599	7,108	15,707
Persian Gulf³	2,161	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2021
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	--	--	-	-	-	-	374	-	-	-	374
Algeria	--	--	-	-	-	-	-	-	-	-	-
Angola	--	--	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	--	--	-	-	-	-	-	-	-	-	-
Equatorial Guinea	--	--	-	-	-	-	-	-	-	-	-
Gabon	--	--	-	-	-	-	-	-	-	-	-
Iran	--	--	-	-	-	-	-	-	-	-	-
Iraq	--	--	-	-	-	-	-	-	-	-	-
Kuwait	--	--	-	-	-	-	-	-	-	-	-
Libya	--	--	-	-	-	-	-	-	-	-	-
Nigeria	--	--	-	-	-	-	-	-	-	-	-
Saudi Arabia	--	--	-	-	-	-	374	-	-	-	374
United Arab Emirates	--	--	-	-	-	-	-	-	-	-	-
Venezuela	--	--	-	-	-	-	-	-	-	-	-
Non-OPEC	--	--	-	196	-	-	7,646	-	-	-	7,646
Argentina	--	--	-	-	-	-	-	-	-	-	-
Aruba	--	--	-	-	-	-	-	-	-	-	-
Australia	--	--	-	-	-	-	-	-	-	-	-
Bahamas	--	--	-	-	-	-	-	-	-	-	-
Bahrain	--	--	-	-	-	-	-	-	-	-	-
Belgium	--	--	-	-	-	-	-	-	-	-	-
Brazil	--	--	-	-	-	-	-	-	-	-	-
Brunei	--	--	-	-	-	-	-	-	-	-	-
Cameroon	--	--	-	-	-	-	-	-	-	-	-
Canada	--	--	-	181	-	-	4,346	-	-	-	4,346
Chad	--	--	-	-	-	-	-	-	-	-	-
China	--	--	-	-	-	-	-	-	-	-	-
Colombia	--	--	-	-	-	-	276	-	-	-	276
Denmark	--	--	-	-	-	-	-	-	-	-	-
Ecuador	--	--	-	-	-	-	-	-	-	-	-
Egypt	--	--	-	-	-	-	-	-	-	-	-
Estonia	--	--	-	-	-	-	-	-	-	-	-
Finland	--	--	-	-	-	-	-	-	-	-	-
France	--	--	-	-	-	-	-	-	-	-	-
Germany	--	--	-	-	-	-	-	-	-	-	-
Guatemala	--	--	-	-	-	-	-	-	-	-	-
India	--	--	-	-	-	-	-	-	-	-	-
Indonesia	--	--	-	-	-	-	-	-	-	-	-
Italy	--	--	-	-	-	-	-	-	-	-	-
Korea, South	--	--	-	-	-	-	757	-	-	-	757
Latvia	--	--	-	-	-	-	-	-	-	-	-
Lithuania	--	--	-	-	-	-	-	-	-	-	-
Malaysia	--	--	-	-	-	-	752	-	-	-	752
Mexico	--	--	-	-	-	-	-	-	-	-	-
Netherlands	--	--	-	-	-	-	-	-	-	-	-
Norway	--	--	-	-	-	-	-	-	-	-	-
Oman	--	--	-	-	-	-	808	-	-	-	808
Portugal	--	--	-	-	-	-	-	-	-	-	-
Qatar	--	--	-	-	-	-	184	-	-	-	184
Russia	--	--	-	-	-	-	337	-	-	-	337
Spain	--	--	-	15	-	-	-	-	-	-	-
Sweden	--	--	-	-	-	-	-	-	-	-	-
Syria	--	--	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	--	--	-	-	-	-	-	-	-	-	-
United Kingdom	--	--	-	-	-	-	-	-	-	-	-
Vietnam	--	--	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	--	--	-	-	-	-	-	-	-	-	-
Yemen	--	--	-	-	-	-	-	-	-	-	-
Other	--	--	-	0	-	-	186	-	-	-	186
Total	--	--	-	196	-	-	8,020	-	-	-	8,020
Persian Gulf³	--	--	-	-	-	-	558	-	-	-	558

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2021
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	1,286	—	613	214	—	827
Algeria	—	—	—	—	—	613	199	—	812
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	15	—	15
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	695	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	591	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	19	—	1,385	112	320	661	756	1,737
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	372	—	372
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	27	—	27
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	1	—	455	112	—	50	291	341
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	32	32
Denmark	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	53	53
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	320	—	—	320
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	696	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	330	330
Netherlands	—	18	—	—	—	—	3	48	51
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Russia	—	—	—	234	—	—	—	2	2
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	0	—	0	0	0	209	0	209
Total	—	19	—	2,671	112	933	875	756	2,564
Persian Gulf⁶	—	—	—	1,286	—	—	—	—	—

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2021
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	—	—	—	—	—	—	—	2,730	10,065	237	88	325
Algeria	—	—	—	—	—	—	—	812	812	—	26	26
Angola	—	—	—	—	—	—	—	—	50	2	—	2
Congo (Brazzaville)	—	—	—	—	—	—	—	15	15	—	0	0
Equatorial Guinea	—	—	—	—	—	—	—	243	243	—	8	8
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	695	695	—	22	22
Libya	—	—	—	—	—	—	—	—	1,702	55	—	55
Nigeria	—	—	—	—	—	—	—	—	3,422	110	—	110
Saudi Arabia	—	—	—	—	—	—	—	965	3,126	70	31	101
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	212	—	137	4	923	148	—	31,999	45,860	447	1,032	1,479
Argentina	75	—	—	—	—	—	—	287	287	—	9	9
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	1,000	1,000	—	32	32
Bahrain	—	—	—	—	—	26	—	26	26	—	1	1
Belgium	—	—	—	—	—	1	—	157	157	—	5	5
Brazil	—	—	—	1	—	—	—	340	340	—	11	11
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	2	—	70	1	887	74	—	13,056	18,924	189	421	610
Chad	—	—	—	—	—	—	—	—	—	—	—	—
China	—	—	21	—	—	—	—	21	21	—	1	1
Colombia	—	—	—	—	—	—	—	308	308	—	10	10
Denmark	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	53	53	—	2	2
Egypt	—	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	10	—	459	459	—	15	15
Germany	—	—	—	—	—	8	—	328	328	—	11	11
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	2,550	2,550	—	82	82
Indonesia	—	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	1	—	973	973	—	31	31
Korea, South	—	—	—	—	—	24	—	781	781	—	25	25
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	2	2	—	0	0
Malaysia	—	—	—	—	—	—	—	752	752	—	24	24
Mexico	—	—	—	—	—	—	—	661	1,655	32	21	53
Netherlands	—	—	—	—	—	1	—	2,074	2,074	—	67	67
Norway	—	—	—	—	—	—	—	319	2,969	85	10	96
Oman	—	—	—	—	—	—	—	808	808	—	26	26
Portugal	—	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	184	184	—	6	6
Russia	120	—	—	—	—	1	—	1,563	3,650	67	50	118
Spain	—	—	—	—	—	—	—	558	558	—	18	18
Sweden	—	—	—	—	—	—	—	711	711	—	23	23
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	2,948	2,948	—	95	95
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	15	—	46	2	36	2	—	1,080	3,342	74	36	108
Total	212	—	137	4	923	148	—	34,729	55,925	684	1,120	1,804
Persian Gulf³	—	—	—	—	—	26	—	1,870	4,031	70	60	130

— = Not Applicable.

1 = No Data Reported.

2 Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

3 Includes crude oil imported for storage in the Strategic Petroleum Reserve.

4 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2021
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	90,699	2,271	168	-	-	-	-	-	424	424
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	90,699	2,269	168	-	-	-	-	-	424	424
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	2	0	-	-	-	-	-	0	0
Total	90,699	2,271	168	-	-	-	-	-	424	424
Persian Gulf³	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2021
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	--	--	-	-	-	-	-	-	-	-	-
Algeria	--	--	-	-	-	-	-	-	-	-	-
Angola	--	--	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	--	--	-	-	-	-	-	-	-	-	-
Equatorial Guinea	--	--	-	-	-	-	-	-	-	-	-
Gabon	--	--	-	-	-	-	-	-	-	-	-
Iran	--	--	-	-	-	-	-	-	-	-	-
Iraq	--	--	-	-	-	-	-	-	-	-	-
Kuwait	--	--	-	-	-	-	-	-	-	-	-
Libya	--	--	-	-	-	-	-	-	-	-	-
Nigeria	--	--	-	-	-	-	-	-	-	-	-
Saudi Arabia	--	--	-	-	-	-	-	-	-	-	-
United Arab Emirates	--	--	-	-	-	-	-	-	-	-	-
Venezuela	--	--	-	-	-	-	-	-	-	-	-
Non-OPEC	--	--	-	115	-	-	354	-	-	-	354
Argentina	--	--	-	-	-	-	-	-	-	-	-
Aruba	--	--	-	-	-	-	-	-	-	-	-
Australia	--	--	-	-	-	-	-	-	-	-	-
Bahamas	--	--	-	-	-	-	-	-	-	-	-
Bahrain	--	--	-	-	-	-	-	-	-	-	-
Belgium	--	--	-	-	-	-	-	-	-	-	-
Brazil	--	--	-	-	-	-	-	-	-	-	-
Brunei	--	--	-	-	-	-	-	-	-	-	-
Cameroon	--	--	-	-	-	-	-	-	-	-	-
Canada	--	--	-	115	-	-	354	-	-	-	354
Chad	--	--	-	-	-	-	-	-	-	-	-
China	--	--	-	-	-	-	-	-	-	-	-
Colombia	--	--	-	-	-	-	-	-	-	-	-
Denmark	--	--	-	-	-	-	-	-	-	-	-
Ecuador	--	--	-	-	-	-	-	-	-	-	-
Egypt	--	--	-	-	-	-	-	-	-	-	-
Estonia	--	--	-	-	-	-	-	-	-	-	-
Finland	--	--	-	-	-	-	-	-	-	-	-
France	--	--	-	-	-	-	-	-	-	-	-
Germany	--	--	-	-	-	-	-	-	-	-	-
Guatemala	--	--	-	-	-	-	-	-	-	-	-
India	--	--	-	-	-	-	-	-	-	-	-
Indonesia	--	--	-	-	-	-	-	-	-	-	-
Italy	--	--	-	-	-	-	-	-	-	-	-
Korea, South	--	--	-	-	-	-	-	-	-	-	-
Latvia	--	--	-	-	-	-	-	-	-	-	-
Lithuania	--	--	-	-	-	-	-	-	-	-	-
Malaysia	--	--	-	-	-	-	-	-	-	-	-
Mexico	--	--	-	-	-	-	-	-	-	-	-
Netherlands	--	--	-	-	-	-	-	-	-	-	-
Norway	--	--	-	-	-	-	-	-	-	-	-
Oman	--	--	-	-	-	-	-	-	-	-	-
Portugal	--	--	-	-	-	-	-	-	-	-	-
Qatar	--	--	-	-	-	-	-	-	-	-	-
Russia	--	--	-	-	-	-	-	-	-	-	-
Spain	--	--	-	-	-	-	-	-	-	-	-
Sweden	--	--	-	-	-	-	-	-	-	-	-
Syria	--	--	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	--	--	-	-	-	-	-	-	-	-	-
United Kingdom	--	--	-	-	-	-	-	-	-	-	-
Vietnam	--	--	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	--	--	-	-	-	-	-	-	-	-	-
Yemen	--	--	-	-	-	-	-	-	-	-	-
Other	--	--	-	0	-	-	0	-	-	-	0
Total	--	--	-	115	-	-	354	-	-	-	354
Persian Gulf³	--	--	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2021
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	6	3	—	—	8	—	11	110	121
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	6	3	—	—	8	—	11	110	121
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	0	0	—	—	0	—	0	0	0
Total	6	3	—	—	8	—	11	110	121
Persian Gulf⁶	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2021
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	-	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	84	66	9	25	1,057	225	-	4,936	95,635	2,926	159	3,085
Argentina	-	-	-	-	-	1	-	1	1	-	0	0
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	84	66	9	25	1,057	224	-	4,933	95,632	2,926	159	3,085
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	2	2	-	0	0
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	0	0	0	-	0	0	0	0	0
Total	84	66	9	25	1,057	225	-	4,936	95,635	2,926	159	3,085
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-	-

-- = Not Applicable.

- = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2021
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	8,774	-	-	1,460	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	393	-	-	-	-	-	-	-	-	-
Kuwait	360	-	-	-	-	-	-	-	-	-
Libya	-	-	-	18	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	8,021	-	-	1,442	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	33,502	-	-	11,425	-	-	-	-	134	134
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	368	-	-	30	-	-	-	-	45	45
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	14,254	-	-	385	-	-	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	3,460	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	346	-	-	-	-	-	-
Egypt	-	-	-	903	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	22	22
Guatemala	281	-	-	-	-	-	-	-	-	-
India	-	-	-	369	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	67	67
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	13,365	-	-	966	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	7,540	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	861	-	-	-	-	-	-	-	-	-
United Kingdom	913	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	-	-	886	-	-	-	-	0	0
Total	42,276	-	-	12,885	-	-	-	-	134	134
Persian Gulf³	8,774	-	-	1,442	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2021
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	--	--	-	-	-	-	-	-	-	-	-
Algeria	--	--	-	-	-	-	-	-	-	-	-
Angola	--	--	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	--	--	-	-	-	-	-	-	-	-	-
Equatorial Guinea	--	--	-	-	-	-	-	-	-	-	-
Gabon	--	--	-	-	-	-	-	-	-	-	-
Iran	--	--	-	-	-	-	-	-	-	-	-
Iraq	--	--	-	-	-	-	-	-	-	-	-
Kuwait	--	--	-	-	-	-	-	-	-	-	-
Libya	--	--	-	-	-	-	-	-	-	-	-
Nigeria	--	--	-	-	-	-	-	-	-	-	-
Saudi Arabia	--	--	-	-	-	-	-	-	-	-	-
United Arab Emirates	--	--	-	-	-	-	-	-	-	-	-
Venezuela	--	--	-	-	-	-	-	-	-	-	-
Non-OPEC	--	--	-	93	-	-	-	-	220	-	220
Argentina	--	--	-	-	-	-	-	-	-	-	-
Aruba	--	--	-	-	-	-	-	-	-	-	-
Australia	--	--	-	-	-	-	-	-	-	-	-
Bahamas	--	--	-	-	-	-	-	-	-	-	-
Bahrain	--	--	-	-	-	-	-	-	-	-	-
Belgium	--	--	-	-	-	-	-	-	-	-	-
Brazil	--	--	-	-	-	-	-	-	-	-	-
Brunei	--	--	-	-	-	-	-	-	-	-	-
Cameroon	--	--	-	-	-	-	-	-	-	-	-
Canada	--	--	-	-	-	-	-	-	220	-	220
Chad	--	--	-	-	-	-	-	-	-	-	-
China	--	--	-	-	-	-	-	-	-	-	-
Colombia	--	--	-	-	-	-	-	-	-	-	-
Denmark	--	--	-	-	-	-	-	-	-	-	-
Ecuador	--	--	-	-	-	-	-	-	-	-	-
Egypt	--	--	-	-	-	-	-	-	-	-	-
Estonia	--	--	-	-	-	-	-	-	-	-	-
Finland	--	--	-	-	-	-	-	-	-	-	-
France	--	--	-	-	-	-	-	-	-	-	-
Germany	--	--	-	-	-	-	-	-	-	-	-
Guatemala	--	--	-	-	-	-	-	-	-	-	-
India	--	--	-	-	-	-	-	-	-	-	-
Indonesia	--	--	-	-	-	-	-	-	-	-	-
Italy	--	--	-	80	-	-	-	-	-	-	-
Korea, South	--	--	-	-	-	-	-	-	-	-	-
Latvia	--	--	-	-	-	-	-	-	-	-	-
Lithuania	--	--	-	-	-	-	-	-	-	-	-
Malaysia	--	--	-	-	-	-	-	-	-	-	-
Mexico	--	--	-	-	-	-	-	-	-	-	-
Netherlands	--	--	-	-	-	-	-	-	-	-	-
Norway	--	--	-	-	-	-	-	-	-	-	-
Oman	--	--	-	-	-	-	-	-	-	-	-
Portugal	--	--	-	-	-	-	-	-	-	-	-
Qatar	--	--	-	-	-	-	-	-	-	-	-
Russia	--	--	-	-	-	-	-	-	-	-	-
Spain	--	--	-	13	-	-	-	-	-	-	-
Sweden	--	--	-	-	-	-	-	-	-	-	-
Syria	--	--	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	--	--	-	-	-	-	-	-	-	-	-
United Kingdom	--	--	-	-	-	-	-	-	-	-	-
Vietnam	--	--	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	--	--	-	-	-	-	-	-	-	-	-
Yemen	--	--	-	-	-	-	-	-	-	-	-
Other	--	--	-	0	-	-	-	-	0	-	0
Total	--	--	-	93	-	-	-	-	220	-	220
Persian Gulf³	--	--	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2021
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	24	-	-	267	-	-	3,546	3,546
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	307	307
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	21	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	164	-	-	64	64
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	179	179
Denmark	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	41	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	2,634	2,634
Netherlands	-	24	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	362	362
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	41	-	-	0	0
Total	-	24	-	-	267	-	-	3,546	3,546
Persian Gulf⁶	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2021
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	—	—	—	—	—	172	—	1,632	10,406	283	53	336
Algeria	—	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	393	13	—	13
Kuwait	—	—	—	—	—	—	—	—	360	12	—	12
Libya	—	—	—	—	—	—	—	18	18	—	1	1
Nigeria	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	1,442	9,463	259	47	305
United Arab Emirates	—	—	—	—	—	172	—	172	172	—	6	6
Venezuela	—	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	365	62	62	253	30	695	—	17,180	50,682	1,081	554	1,635
Argentina	—	14	—	175	—	3	—	192	192	—	6	6
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	307	307	—	10	10
Bahrain	—	—	—	—	—	68	—	68	68	—	2	2
Belgium	—	—	—	—	—	2	—	2	2	—	0	0
Brazil	—	—	—	78	—	—	—	174	542	12	6	17
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	—	—	1	—	834	15,088	460	27	487
Chad	—	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	179	3,639	112	6	117
Denmark	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	346	346	—	11	11
Egypt	—	—	—	—	—	—	—	903	903	—	29	29
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—	—
France	—	48	—	—	—	2	—	50	50	—	2	2
Germany	—	—	—	—	—	3	—	25	25	—	1	1
Guatemala	—	—	—	—	—	—	—	—	281	9	—	9
India	—	—	—	—	—	1	—	370	370	—	12	12
Indonesia	—	—	—	—	—	67	—	67	67	—	2	2
Italy	—	—	19	—	—	5	—	104	104	—	3	3
Korea, South	45	—	—	—	—	272	—	425	425	—	14	14
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	15	—	—	—	—	15	15	—	0	0
Mexico	154	—	—	—	—	—	—	3,754	17,119	431	121	552
Netherlands	—	—	—	—	—	73	—	97	97	—	3	3
Norway	—	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—	—
Qatar	13	—	—	—	—	172	—	185	185	—	6	6
Russia	—	—	—	—	—	—	—	7,902	7,902	—	255	255
Spain	—	—	1	—	—	12	—	26	26	—	1	1
Sweden	—	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	861	28	—	28
United Kingdom	3	—	27	—	—	—	—	30	943	29	1	30
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	150	0	0	0	30	14	—	1,125	1,125	0	36	38
Total	365	62	62	253	30	867	—	18,812	61,088	1,364	607	1,971
Persian Gulf⁶	13	—	—	—	—	412	—	1,867	10,641	283	60	343

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2021
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reform-ulated	Conven- tional	Total	Reform-ulated	Conven- tional	Total
	PAD District 4									
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	10,493	694	-	-	-	-	-	-	3	3
Canada	10,493	694	-	-	-	-	-	-	3	3
Ecuador	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Other	0	0	-	-	-	-	-	-	0	0
Total	10,493	694	-	-	-	-	-	-	3	3
	PAD District 5									
OPEC	11,981	-	-	408	-	-	-	-	-	-
Algeria	-	-	-	408	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	6,534	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	4,450	-	-	-	-	-	-	-	-	-
United Arab Emirates	997	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	22,423	1,299	-	530	-	618	618	-	805	805
Argentina	1,904	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Brazil	2,251	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Canada	5,320	1,299	-	-	-	37	37	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	3,116	-	-	-	-	-	-	-	-	-
Ecuador	6,303	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	315	315
Korea, South	-	-	-	-	-	272	272	-	160	160
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	897	-	-	318	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	18	18
Oman	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Other	2,632	0	-	212	-	309	309	-	312	312
Total	34,404	1,367	-	938	-	618	618	-	805	805
Persian Gulf ³	11,981	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2021
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total
PAD District 4											
OPEC	--	--	-	-	-	-	-	-	-	-	-
Algeria	--	--	-	-	-	-	-	-	-	-	-
Angola	--	--	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	--	--	-	-	-	-	-	-	-	-	-
Iran	--	--	-	-	-	-	-	-	-	-	-
Iraq	--	--	-	-	-	-	-	-	-	-	-
Kuwait	--	--	-	-	-	-	-	-	-	-	-
Libya	--	--	-	-	-	-	-	-	-	-	-
Nigeria	--	--	-	-	-	-	-	-	-	-	-
Saudi Arabia	--	--	-	-	-	-	-	-	-	-	-
United Arab Emirates	--	--	-	-	-	-	-	-	-	-	-
Venezuela	--	--	-	-	-	-	-	-	-	-	-
Non-OPEC	--	--	-	4	-	-	124	-	-	-	124
Canada	--	--	-	4	-	-	124	-	-	-	124
Ecuador	--	--	-	-	-	-	-	-	-	-	-
Qatar	--	--	-	-	-	-	-	-	-	-	-
Other	--	--	-	0	-	-	0	-	-	-	0
Total	--	--	-	4	-	-	124	-	-	-	124
PAD District 5											
OPEC	--	--	-	-	-	-	-	-	-	-	-
Algeria	--	--	-	-	-	-	-	-	-	-	-
Angola	--	--	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	--	--	-	-	-	-	-	-	-	-	-
Iran	--	--	-	-	-	-	-	-	-	-	-
Iraq	--	--	-	-	-	-	-	-	-	-	-
Kuwait	--	--	-	-	-	-	-	-	-	-	-
Libya	--	--	-	-	-	-	-	-	-	-	-
Nigeria	--	--	-	-	-	-	-	-	-	-	-
Saudi Arabia	--	--	-	-	-	-	-	-	-	-	-
United Arab Emirates	--	--	-	-	-	-	-	-	-	-	-
Venezuela	--	--	-	-	-	-	-	-	-	-	-
Non-OPEC	--	--	-	115	493	-	320	-	-	-	320
Argentina	--	--	-	-	-	-	-	-	-	-	-
Aruba	--	--	-	-	-	-	-	-	-	-	-
Australia	--	--	-	-	-	-	-	-	-	-	-
Brazil	--	--	-	-	-	-	-	-	-	-	-
Brunei	--	--	-	-	-	-	-	-	-	-	-
Canada	--	--	-	49	-	-	277	-	-	-	277
China	--	--	-	-	-	-	-	-	-	-	-
Colombia	--	--	-	-	-	-	-	-	-	-	-
Ecuador	--	--	-	-	-	-	-	-	-	-	-
Finland	--	--	-	-	-	-	-	-	-	-	-
Germany	--	--	-	-	-	-	-	-	-	-	-
Indonesia	--	--	-	-	-	-	-	-	-	-	-
Japan	--	--	-	-	-	-	-	-	-	-	-
Korea, South	--	--	-	66	-	-	43	-	-	-	43
Malaysia	--	--	-	-	-	-	-	-	-	-	-
Mexico	--	--	-	-	-	-	-	-	-	-	-
Netherlands	--	--	-	-	-	-	-	-	-	-	-
Oman	--	--	-	-	-	-	-	-	-	-	-
Papua New Guinea	--	--	-	-	-	-	-	-	-	-	-
Peru	--	--	-	-	-	-	-	-	-	-	-
Qatar	--	--	-	-	-	-	-	-	-	-	-
Singapore	--	--	-	-	-	-	-	-	-	-	-
Sweden	--	--	-	-	-	-	-	-	-	-	-
Taiwan	--	--	-	-	-	-	-	-	-	-	-
United Kingdom	--	--	-	-	-	-	-	-	-	-	-
Vietnam	--	--	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	--	--	-	-	-	-	-	-	-	-	-
Other	--	--	-	0	493	-	0	-	-	-	0
Total	--	--	-	115	493	-	320	-	-	-	320
Persian Gulf³	--	--	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2021
(Thousand Barrels) — Continued

Country of Origin						Residual Fuel Oil			
	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
	PAD District 4								
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	36	-	-	-	-	-
Canada	-	-	-	36	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	-	-	-
Total	-	-	-	36	-	-	-	-	-
	PAD District 5								
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	1,730	-	-	36	215	251
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Canada	-	-	-	12	-	-	36	115	151
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	100	100
Finland	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	1,424	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Other	-	-	-	294	-	-	0	0	0
Total	-	-	-	1,730	-	-	36	215	251
Persian Gulf ³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2021
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
	PAD District 4											
OPEC	-	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	-	71	-	1	933	11,426	338	30	369
Canada	-	-	-	-	71	-	1	933	11,426	338	30	369
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	0	-	0	0	0	0	0	0
Total	-	-	-	-	71	-	1	933	11,426	338	30	369
	PAD District 5											
OPEC	-	-	-	-	-	-	-	476	12,457	386	15	402
Algeria	-	-	-	-	-	-	-	408	408	-	13	13
Angola	-	-	-	-	-	-	-	25	25	-	1	1
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	6,534	211	-	211
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	4,450	144	-	144
United Arab Emirates	-	-	-	-	-	-	-	-	997	32	-	32
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	70	-	43	-	-	6,274	28,697	723	202	926
Argentina	-	-	-	-	-	-	-	-	1,904	61	-	61
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	2,251	73	-	73
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	43	-	-	1,868	7,188	172	60	232
China	-	-	39	-	-	-	-	39	39	-	1	1
Colombia	-	-	-	-	-	-	-	-	3,116	101	-	101
Ecuador	-	-	-	-	-	-	-	100	6,403	203	3	207
Finland	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	15	-	-	-	-	330	330	-	11	11
Korea, South	-	-	-	-	-	-	-	1,965	1,965	-	63	63
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	318	1,215	29	10	39
Netherlands	-	-	-	-	-	-	-	18	18	-	1	1
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	493	493	-	16	16
Sweden	-	-	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	16	-	-	-	-	16	16	-	1	1
United Kingdom	-	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	0	-	0	-	-	1,127	3,759	84	36	120
Total	-	-	70	-	43	-	-	6,750	41,154	1,110	218	1,328
Persian Gulf ³	-	-	-	-	-	-	-	-	11,981	386	-	386

-- = Not Applicable.

- = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2021
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reform-ulated	Conven-tional	Total	Reform-ulated	Conven-tional	Total
OPEC	77,581	632	—	424	—	485	485	961	7,889	8,850
Algeria	6,549	—	—	—	—	—	—	—	326	326
Angola	6,150	—	—	323	—	—	—	—	647	647
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	488	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	6	6
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—
Libya	12,472	—	—	—	—	—	—	—	—	—
Nigeria	31,245	144	—	101	—	40	40	—	2,536	2,536
Saudi Arabia	21,165	—	—	—	—	445	445	961	4,199	5,160
United Arab Emirates	—	—	—	—	—	—	—	—	175	175
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	132,103	11,030	3,217	20,069	—	28,880	28,880	78,829	122,699	201,528
Argentina	—	—	—	50	—	191	191	—	1,075	1,075
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	390	390	—	920	920
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	82	—	777	777	2,828	3,257	6,085
Brazil	223	—	—	—	—	486	486	313	7,473	7,786
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	952	—	—	—	—	—	—	—	—	—
Canada	58,070	10,777	3,217	214	—	4,519	4,519	36,926	8,369	45,295
Chad	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—
Colombia	855	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	79	79	123	71	194
Ecuador	—	—	—	1,274	—	—	—	—	—	—
Egypt	—	—	—	358	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	318	318	—	5,695	5,695
France	—	—	—	1	—	159	159	3,471	4,058	7,529
Germany	—	—	—	—	—	187	187	—	324	324
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	160	—	1,108	1,108	24	17,132	17,156
Indonesia	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	180	—	2,065	2,065	1,149	9,291	10,440
Korea, South	—	—	—	—	—	175	175	—	1,900	1,900
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	366	366	—	939	939
Malaysia	—	—	—	—	—	—	—	—	290	290
Mexico	12,400	—	—	3,589	—	—	—	—	270	270
Netherlands	—	—	—	—	—	5,714	5,714	14,355	13,055	27,410
Norway	16,858	253	—	380	—	853	853	4,198	2,127	6,325
Oman	—	—	—	—	—	—	—	—	33	33
Portugal	—	—	—	—	—	875	875	1,938	7,048	8,986
Qatar	—	—	—	—	—	—	—	—	—	—
Russia	18,194	—	—	12,139	—	4,877	4,877	997	15,846	16,843
Spain	—	—	—	—	—	910	910	57	6,905	6,962
Sweden	—	—	—	—	—	244	244	281	4,183	4,464
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	2,010	—	—	—	—	—	—	—	—	—
United Kingdom	3,890	—	—	145	—	968	968	12,034	4,228	16,262
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	987	—	425	425	—	1,059	1,059
Yemen	—	—	—	—	—	—	—	—	—	—
Other	18,651	0	0	510	—	3,194	3,194	135	7,145	7,280
Total	209,684	11,662	3,217	20,493	—	29,365	29,365	79,790	130,588	210,378
Persian Gulf³	21,165	—	—	—	—	445	445	961	4,374	5,335

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2021
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	--	--	-	-	-	-	11,097	-	-	-	11,097
Algeria	--	--	-	-	-	-	-	-	-	-	-
Angola	--	--	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	--	--	-	-	-	-	-	-	-	-	-
Equatorial Guinea	--	--	-	-	-	-	-	-	-	-	-
Gabon	--	--	-	-	-	-	24	-	-	-	24
Iran	--	--	-	-	-	-	-	-	-	-	-
Iraq	--	--	-	-	-	-	-	-	-	-	-
Kuwait	--	--	-	-	-	-	1,320	-	-	-	1,320
Libya	--	--	-	-	-	-	-	-	-	-	-
Nigeria	--	--	-	-	-	-	3,194	-	-	-	3,194
Saudi Arabia	--	--	-	-	-	-	5,125	-	-	-	5,125
United Arab Emirates	--	--	-	-	-	-	1,434	-	-	-	1,434
Venezuela	--	--	-	-	-	-	-	-	-	-	-
Non-OPEC	--	--	-	1,995	-	-	79,979	20	-	-	79,999
Argentina	--	--	-	-	-	-	-	-	-	-	-
Aruba	--	--	-	-	-	-	-	-	-	-	-
Australia	--	--	-	-	-	-	-	-	-	-	-
Bahamas	--	--	-	-	-	-	-	-	-	-	-
Bahrain	--	--	-	-	-	-	308	-	-	-	308
Belgium	--	--	-	-	-	-	4,948	-	-	-	4,948
Brazil	--	--	-	-	-	-	-	-	-	-	-
Brunei	--	--	-	-	-	-	-	-	-	-	-
Cameroon	--	--	-	-	-	-	-	-	-	-	-
Canada	--	--	-	1,076	-	-	36,588	20	-	-	36,608
Chad	--	--	-	-	-	-	-	-	-	-	-
China	--	--	-	-	-	-	-	-	-	-	-
Colombia	--	--	-	-	-	-	5,943	-	-	-	5,943
Denmark	--	--	-	-	-	-	40	-	-	-	40
Ecuador	--	--	-	-	-	-	-	-	-	-	-
Egypt	--	--	-	-	-	-	-	-	-	-	-
Estonia	--	--	-	-	-	-	-	-	-	-	-
Finland	--	--	-	-	-	-	204	-	-	-	204
France	--	--	-	-	-	-	-	-	-	-	-
Germany	--	--	-	647	-	-	-	-	-	-	-
Guatemala	--	--	-	-	-	-	-	-	-	-	-
India	--	--	-	-	-	-	5,478	-	-	-	5,478
Indonesia	--	--	-	-	-	-	143	-	-	-	143
Italy	--	--	-	-	-	-	219	-	-	-	219
Korea, South	--	--	-	-	-	-	1,361	-	-	-	1,361
Latvia	--	--	-	-	-	-	-	-	-	-	-
Lithuania	--	--	-	-	-	-	-	-	-	-	-
Malaysia	--	--	-	-	-	-	1,069	-	-	-	1,069
Mexico	--	--	-	-	-	-	-	-	-	-	-
Netherlands	--	--	-	-	-	-	6,581	-	-	-	6,581
Norway	--	--	-	-	-	-	-	-	-	-	-
Oman	--	--	-	-	-	-	2,445	-	-	-	2,445
Portugal	--	--	-	-	-	-	258	-	-	-	258
Qatar	--	--	-	-	-	-	4,213	-	-	-	4,213
Russia	--	--	-	-	-	-	8,227	-	-	-	8,227
Spain	--	--	-	272	-	-	62	-	-	-	62
Sweden	--	--	-	-	-	-	324	-	-	-	324
Syria	--	--	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	--	--	-	-	-	-	-	-	-	-	-
United Kingdom	--	--	-	-	-	-	-	-	-	-	-
Vietnam	--	--	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	--	--	-	-	-	-	654	-	-	-	654
Yemen	--	--	-	-	-	-	-	-	-	-	-
Other	--	--	-	0	-	-	890	0	-	-	890
Total	--	--	-	1,995	-	-	91,076	20	-	-	91,096
Persian Gulf³	--	--	-	-	-	-	12,400	-	-	-	12,400

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2021
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	8,536	—	739	370	—	1,109
Algeria	—	—	—	1,202	—	739	236	—	975
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	15	—	15
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	97	—	97
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	2,347	—	—	—	—	—
Libya	—	—	—	157	—	—	22	—	22
Nigeria	—	—	—	66	—	—	—	—	—
Saudi Arabia	—	—	—	2,097	—	—	—	—	—
United Arab Emirates	—	—	—	2,667	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	256	145	—	14,169	141	520	5,685	9,384	15,589
Argentina	—	—	—	—	—	—	346	—	346
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	473	287	760
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	287	—	—	—	—	—
Brazil	—	—	—	—	—	—	243	110	353
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	4	12	—	2,933	141	—	389	3,984	4,373
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	125	—	—	—	937	937
Denmark	—	—	—	—	—	—	92	—	92
Ecuador	—	—	—	—	—	—	—	74	74
Egypt	—	—	—	—	—	—	10	67	77
Estonia	—	—	—	—	—	—	192	—	192
Finland	—	—	—	—	—	—	34	—	34
France	—	—	—	309	—	—	—	—	—
Germany	—	—	—	—	—	320	352	2	674
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	5,142	—	—	—	543	543
Indonesia	—	—	—	2	—	—	—	—	—
Italy	—	—	—	1,370	—	—	301	—	301
Korea, South	—	—	—	2,073	—	—	—	6	6
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	594	2,039	2,633
Netherlands	—	133	—	—	—	—	210	586	796
Norway	—	—	—	—	—	—	—	129	129
Oman	—	—	—	415	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	1	—	—	—	—	—
Russia	—	—	—	518	—	—	493	507	1,000
Spain	—	—	—	—	—	—	216	—	216
Sweden	—	—	—	—	—	—	86	—	86
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	359	—	359
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	426	—	200	698	21	919
Yemen	—	—	—	—	—	—	—	—	—
Other	252	0	—	568	0	0	500	92	592
Total	256	145	—	22,705	141	1,259	6,055	9,384	16,698
Persian Gulf[§]	—	—	—	7,112	—	—	—	—	—

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2021
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	50	-	-	-	-	131	-	31,314	108,895	213	86	298
Algeria	-	-	-	-	-	-	-	2,503	9,052	18	7	25
Angola	-	-	-	-	-	-	-	970	7,120	17	3	20
Congo (Brazzaville)	-	-	-	-	-	-	-	15	15	-	0	0
Equatorial Guinea	-	-	-	-	-	-	-	488	488	-	1	1
Gabon	-	-	-	-	-	-	-	127	127	-	0	0
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	3,667	3,667	-	10	10
Libya	-	-	-	-	-	-	-	179	12,651	34	0	35
Nigeria	50	-	-	-	-	-	-	6,131	37,376	86	17	102
Saudi Arabia	-	-	-	-	-	-	-	12,827	33,992	58	35	93
United Arab Emirates	-	-	-	-	-	131	-	4,407	4,407	-	12	12
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	944	12	1,250	83	9,708	1,685	1	390,701	522,804	362	1,070	1,432
Argentina	176	-	-	-	-	-	-	1,838	1,838	-	5	5
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	2,070	2,070	-	6	6
Bahrain	-	-	-	-	-	26	-	334	334	-	1	1
Belgium	-	-	-	-	-	45	-	12,224	12,224	-	33	33
Brazil	-	-	-	1	-	-	-	8,626	8,849	1	24	24
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	952	3	-	3
Canada	42	12	887	1	8,898	1,087	1	120,097	178,167	159	329	488
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	195	-	-	-	-	195	195	-	1	1
Colombia	-	-	-	-	300	-	-	7,305	8,160	2	20	22
Denmark	-	-	-	-	-	-	-	405	405	-	1	1
Ecuador	-	-	-	-	-	-	-	1,348	1,348	-	4	4
Egypt	-	-	-	-	-	-	-	435	435	-	1	1
Estonia	-	-	-	-	-	-	-	192	192	-	1	1
Finland	45	-	-	-	-	-	-	6,296	6,296	-	17	17
France	11	-	-	-	-	84	-	8,093	8,093	-	22	22
Germany	-	-	-	-	1	81	-	1,914	1,914	-	5	5
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	29,587	29,587	-	81	81
Indonesia	46	-	-	-	-	-	-	191	191	-	1	1
Italy	-	-	-	-	41	35	-	14,651	14,651	-	40	40
Korea, South	22	-	6	-	-	123	-	5,666	5,666	-	16	16
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	1,305	1,305	-	4	4
Malaysia	-	-	6	-	-	1	-	1,366	1,366	-	4	4
Mexico	-	-	-	-	-	-	-	6,492	18,892	34	18	52
Netherlands	55	-	-	69	-	124	-	40,882	40,882	-	112	112
Norway	-	-	-	-	-	-	-	7,940	24,798	46	22	68
Oman	-	-	-	-	-	-	-	2,893	2,893	-	8	8
Portugal	-	-	-	-	-	-	-	10,119	10,119	-	28	28
Qatar	-	-	-	-	-	-	-	4,214	4,214	-	12	12
Russia	327	-	-	-	-	69	-	44,000	62,194	50	121	170
Spain	-	-	16	-	189	-	-	8,627	8,627	-	24	24
Sweden	-	-	-	7	-	2	-	5,127	5,127	-	14	14
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	2,010	6	-	6
United Kingdom	28	-	-	-	-	-	-	17,762	21,652	11	49	59
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	177	-	-	-	-	-	-	4,647	4,647	-	13	13
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	15	0	140	5	279	8	0	13,733	32,384	50	33	86
Total	994	12	1,250	83	9,708	1,816	1	422,015	631,699	574	1,156	1,731
Persian Gulf³	-	-	-	-	-	157	-	25,449	46,614	58	70	128

-- = Not Applicable.

- = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2021
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reform-ulated	Conven-tional	Total	Reform-ulated	Conven-tional	Total
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	931,467	23,066	2,726	-	-	100	100	-	4,357	4,357
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	931,263	23,057	2,726	-	-	-	-	-	4,204	4,204
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	153	153
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	100	100	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	204	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	9	0	-	-	0	0	-	0	0
Total	931,467	23,066	2,726	-	-	100	100	-	4,357	4,357
Persian Gulf³	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2021
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	--	--	-	-	-	-	-	-	-	-	-
Algeria	--	--	-	-	-	-	-	-	-	-	-
Angola	--	--	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	--	--	-	-	-	-	-	-	-	-	-
Equatorial Guinea	--	--	-	-	-	-	-	-	-	-	-
Gabon	--	--	-	-	-	-	-	-	-	-	-
Iran	--	--	-	-	-	-	-	-	-	-	-
Iraq	--	--	-	-	-	-	-	-	-	-	-
Kuwait	--	--	-	-	-	-	-	-	-	-	-
Libya	--	--	-	-	-	-	-	-	-	-	-
Nigeria	--	--	-	-	-	-	-	-	-	-	-
Saudi Arabia	--	--	-	-	-	-	-	-	-	-	-
United Arab Emirates	--	--	-	-	-	-	-	-	-	-	-
Venezuela	--	--	-	-	-	-	-	-	-	-	-
Non-OPEC	--	--	-	1,156	-	-	2,789	16	16	-	2,821
Argentina	--	--	-	-	-	-	-	-	-	-	-
Aruba	--	--	-	-	-	-	-	-	-	-	-
Australia	--	--	-	-	-	-	-	-	-	-	-
Bahamas	--	--	-	-	-	-	-	-	-	-	-
Bahrain	--	--	-	-	-	-	-	-	-	-	-
Belgium	--	--	-	-	-	-	-	-	-	-	-
Brazil	--	--	-	-	-	-	-	-	-	-	-
Brunei	--	--	-	-	-	-	-	-	-	-	-
Cameroon	--	--	-	-	-	-	-	-	-	-	-
Canada	--	--	-	1,156	-	-	2,789	16	16	-	2,821
Chad	--	--	-	-	-	-	-	-	-	-	-
China	--	--	-	-	-	-	-	-	-	-	-
Colombia	--	--	-	-	-	-	-	-	-	-	-
Denmark	--	--	-	-	-	-	-	-	-	-	-
Ecuador	--	--	-	-	-	-	-	-	-	-	-
Egypt	--	--	-	-	-	-	-	-	-	-	-
Estonia	--	--	-	-	-	-	-	-	-	-	-
Finland	--	--	-	-	-	-	-	-	-	-	-
France	--	--	-	-	-	-	-	-	-	-	-
Germany	--	--	-	-	-	-	-	-	-	-	-
Guatemala	--	--	-	-	-	-	-	-	-	-	-
India	--	--	-	-	-	-	-	-	-	-	-
Indonesia	--	--	-	-	-	-	-	-	-	-	-
Italy	--	--	-	-	-	-	-	-	-	-	-
Korea, South	--	--	-	-	-	-	-	-	-	-	-
Latvia	--	--	-	-	-	-	-	-	-	-	-
Lithuania	--	--	-	-	-	-	-	-	-	-	-
Malaysia	--	--	-	-	-	-	-	-	-	-	-
Mexico	--	--	-	-	-	-	-	-	-	-	-
Netherlands	--	--	-	-	-	-	-	-	-	-	-
Norway	--	--	-	-	-	-	-	-	-	-	-
Oman	--	--	-	-	-	-	-	-	-	-	-
Portugal	--	--	-	-	-	-	-	-	-	-	-
Qatar	--	--	-	-	-	-	-	-	-	-	-
Russia	--	--	-	-	-	-	-	-	-	-	-
Spain	--	--	-	-	-	-	-	-	-	-	-
Sweden	--	--	-	-	-	-	-	-	-	-	-
Syria	--	--	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	--	--	-	-	-	-	-	-	-	-	-
United Kingdom	--	--	-	-	-	-	-	-	-	-	-
Vietnam	--	--	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	--	--	-	-	-	-	-	-	-	-	-
Yemen	--	--	-	-	-	-	-	-	-	-	-
Other	--	--	-	0	-	-	0	0	0	-	0
Total	--	--	-	1,156	-	-	2,789	16	16	-	2,821
Persian Gulf³	--	--	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2021
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	—	—	—	256	—	256
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	256	—	256
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	41	48	—	37	110	—	369	1,157	1,526
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	41	48	—	37	110	—	253	581	834
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	12	—	12
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	5	—	5
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	576	576
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	0	—	99	0	99
Total	41	48	—	37	110	—	625	1,157	1,782
Persian Gulf⁶	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2021
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	—	—	—	—	—	—	—	256	256	—	1	1
Algeria	—	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	256	256	—	1	1
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	869	739	191	331	8,816	2,528	—	49,462	980,929	2,552	136	2,687
Argentina	—	—	—	—	—	5	—	5	5	—	0	0
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	1	—	1	1	—	0	0
Brazil	—	—	—	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	869	739	191	330	8,816	2,515	—	48,494	979,757	2,551	133	2,684
Chad	—	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	153	153	—	0	0
France	—	—	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	1	—	5	—	18	18	—	0	0
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	1	—	1	1	—	0	0
Korea, South	—	—	—	—	—	—	—	109	109	—	0	0
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	204	1	—	1
Netherlands	—	—	—	—	—	—	—	5	5	—	0	0
Norway	—	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	576	576	—	2	2
Spain	—	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	1	—	1	1	—	0	0
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	0	0	0	0	—	99	99	0	1	0
Total	869	739	191	331	8,816	2,528	—	49,718	981,185	2,552	136	2,688
Persian Gulf³	—	—	—	—	—	—	—	—	—	—	—	—

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2021
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	80,208	—	—	13,578	—	—	—	—	481	481
Algeria	—	—	—	301	—	—	—	—	—	—
Angola	1,373	—	—	—	—	—	—	—	325	325
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	1,033	—	—	—	—	—	—	—	—	—
Iraq	8,397	—	—	1,566	—	—	—	—	—	—
Kuwait	5,941	—	—	49	—	—	—	—	—	—
Libya	1,276	—	—	233	—	—	—	—	—	—
Nigeria	2,858	—	—	—	—	—	—	—	156	156
Saudi Arabia	59,330	—	—	9,676	—	—	—	—	—	—
United Arab Emirates	—	—	—	1,753	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	473,299	—	54	147,922	—	1,350	1,350	307	22,410	22,717
Argentina	—	—	—	12	—	—	—	—	208	208
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	1,416	—	—	—	—	558	558
Brazil	7,293	—	—	57	—	—	—	—	1,411	1,411
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	648	—	—	—	—	—	—	—	—	—
Canada	181,987	—	—	1,602	—	—	—	—	—	—
Chad	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—
Colombia	45,881	—	—	440	—	—	—	—	3	3
Denmark	—	—	—	—	—	—	—	—	25	25
Ecuador	1,455	—	—	2,891	—	—	—	—	—	—
Egypt	—	—	—	9,775	—	—	—	—	—	—
Estonia	—	—	—	126	—	—	—	—	—	—
Finland	—	—	—	104	—	—	—	—	591	591
France	—	—	—	1,259	—	—	—	—	1,009	1,009
Germany	—	—	—	259	—	23	23	—	399	399
Guatemala	1,124	—	—	—	—	—	—	—	—	—
India	—	—	—	369	—	—	—	—	2,951	2,951
Indonesia	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	584	—	644	644	—	976	976
Korea, South	—	—	—	84	—	—	—	—	374	374
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—
Mexico	188,406	—	54	9,974	—	—	—	—	435	435
Netherlands	—	—	—	488	—	13	13	—	2,596	2,596
Norway	798	—	—	536	—	—	—	—	52	52
Oman	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	489	489
Qatar	—	—	—	—	—	—	—	—	—	—
Russia	20,941	—	—	110,177	—	100	100	—	627	627
Spain	—	—	—	8	—	56	56	—	1,822	1,822
Sweden	—	—	—	125	—	—	—	—	784	784
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	11,421	—	—	—	—	—	—	—	—	—
United Kingdom	10,358	—	—	979	—	65	65	—	2,305	2,305
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	1,009	—	—	—	—	654	654
Yemen	—	—	—	—	—	—	—	—	—	—
Other	2,987	—	0	5,648	—	449	449	307	4,141	4,448
Total	553,507	—	54	161,500	—	1,350	1,350	307	22,891	23,198
Persian Gulf³	74,701	—	—	13,044	—	—	—	—	—	—

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2021
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	--	--	-	-	-	-	-	-	-	-	-
Algeria	--	--	-	-	-	-	-	-	-	-	-
Angola	--	--	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	--	--	-	-	-	-	-	-	-	-	-
Equatorial Guinea	--	--	-	-	-	-	-	-	-	-	-
Gabon	--	--	-	-	-	-	-	-	-	-	-
Iran	--	--	-	-	-	-	-	-	-	-	-
Iraq	--	--	-	-	-	-	-	-	-	-	-
Kuwait	--	--	-	-	-	-	-	-	-	-	-
Libya	--	--	-	-	-	-	-	-	-	-	-
Nigeria	--	--	-	-	-	-	-	-	-	-	-
Saudi Arabia	--	--	-	-	-	-	-	-	-	-	-
United Arab Emirates	--	--	-	-	-	-	-	-	-	-	-
Venezuela	--	--	-	-	-	-	-	-	-	-	-
Non-OPEC	--	--	-	275	50	-	1,086	-	620	-	1,706
Argentina	--	--	-	-	-	-	-	-	-	-	-
Aruba	--	--	-	-	-	-	-	-	-	-	-
Australia	--	--	-	-	-	-	-	-	-	-	-
Bahamas	--	--	-	-	-	-	-	-	-	-	-
Bahrain	--	--	-	-	-	-	-	-	-	-	-
Belgium	--	--	-	-	-	-	-	-	-	-	-
Brazil	--	--	-	-	-	-	41	-	-	-	41
Brunei	--	--	-	-	-	-	-	-	-	-	-
Cameroon	--	--	-	-	-	-	-	-	-	-	-
Canada	--	--	-	-	-	-	-	-	220	-	220
Chad	--	--	-	-	-	-	-	-	-	-	-
China	--	--	-	-	-	-	-	-	-	-	-
Colombia	--	--	-	-	-	-	263	-	-	-	263
Denmark	--	--	-	-	-	-	-	-	-	-	-
Ecuador	--	--	-	-	-	-	-	-	-	-	-
Egypt	--	--	-	-	-	-	-	-	-	-	-
Estonia	--	--	-	-	-	-	-	-	-	-	-
Finland	--	--	-	-	-	-	-	-	-	-	-
France	--	--	-	-	-	-	265	-	-	-	265
Germany	--	--	-	-	-	-	-	-	-	-	-
Guatemala	--	--	-	-	-	-	-	-	-	-	-
India	--	--	-	-	-	-	-	-	-	-	-
Indonesia	--	--	-	-	-	-	-	-	-	-	-
Italy	--	--	-	80	-	-	-	-	-	-	-
Korea, South	--	--	-	-	-	-	-	-	-	-	-
Latvia	--	--	-	-	-	-	-	-	-	-	-
Lithuania	--	--	-	-	-	-	-	-	-	-	-
Malaysia	--	--	-	-	-	-	-	-	-	-	-
Mexico	--	--	-	-	-	-	71	-	-	-	71
Netherlands	--	--	-	-	-	-	-	-	-	-	-
Norway	--	--	-	-	-	-	-	-	-	-	-
Oman	--	--	-	-	-	-	-	-	-	-	-
Portugal	--	--	-	-	-	-	-	-	-	-	-
Qatar	--	--	-	-	-	-	-	-	-	-	-
Russia	--	--	-	-	-	-	286	-	-	-	286
Spain	--	--	-	195	-	-	-	-	-	-	-
Sweden	--	--	-	-	-	-	-	-	-	-	-
Syria	--	--	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	--	--	-	-	-	-	-	-	-	-	-
United Kingdom	--	--	-	-	-	-	-	-	-	-	-
Vietnam	--	--	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	--	--	-	-	-	-	160	-	400	-	560
Yemen	--	--	-	-	-	-	-	-	-	-	-
Other	--	--	-	0	50	-	0	-	0	-	0
Total	--	--	-	275	50	-	1,086	-	620	-	1,706
Persian Gulf³	--	--	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2021
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	—	325	—	—	782	782
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	608	608
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	325	—	—	174	174
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	237	—	—	3,327	1,662	2,194	38,013	41,869
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	2,991	2,991
Bahrain	—	—	—	—	—	—	—	235	235
Belgium	—	—	—	—	—	2	—	—	2
Brazil	—	—	—	—	253	—	77	1,269	1,346
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	—	—	—	908	582	57	1,016	1,655
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	210	383	593
Denmark	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	600	600
Egypt	—	—	—	—	—	—	—	1,636	1,636
Estonia	—	76	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	224	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	208	208
Korea, South	—	—	—	—	1,271	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	72	—	264	23,319	23,583
Netherlands	—	161	—	—	19	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	903	645	4,422	5,970
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	101	—	101
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	175	225	—	400
Yemen	—	—	—	—	—	—	—	—	—
Other	—	0	—	—	580	0	615	1,934	2,549
Total	—	237	—	—	3,652	1,662	2,194	38,795	42,651
Persian Gulf⁶	—	—	—	—	325	—	—	1,017	1,017

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2021
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	—	—	—	451	—	1,555	—	17,172	97,380	220	47	267
Algeria	—	—	—	—	—	—	—	301	301	—	1	1
Angola	—	—	—	—	—	—	—	325	1,698	4	1	5
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	1,033	3	—	3
Iraq	—	—	—	—	—	—	—	1,566	9,963	23	4	27
Kuwait	—	—	—	157	—	—	—	814	6,755	16	2	19
Libya	—	—	—	—	—	—	—	233	1,509	3	1	4
Nigeria	—	—	—	—	—	—	—	156	3,014	8	0	8
Saudi Arabia	—	—	—	294	—	128	—	10,597	69,927	163	29	192
United Arab Emirates	—	—	—	—	—	1,427	—	3,180	3,180	—	9	9
Venezuela	—	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	3,319	515	489	2,898	128	10,624	—	237,558	710,857	1,297	651	1,948
Argentina	—	175	—	1,385	—	28	—	1,808	1,808	—	5	5
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	2,991	2,991	—	8	8
Bahrain	—	—	—	—	—	882	—	1,117	1,117	—	3	3
Belgium	201	—	—	—	—	48	—	2,225	2,225	—	6	6
Brazil	—	—	—	1,179	—	—	—	4,287	11,580	20	12	32
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	648	2	—	2
Canada	—	105	—	—	98	79	—	4,667	186,654	499	13	511
Chad	—	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	1,299	47,180	126	4	129
Denmark	—	—	—	—	—	—	—	25	25	—	0	0
Ecuador	—	—	—	—	—	—	—	3,491	4,946	4	10	14
Egypt	—	—	—	—	—	—	—	11,411	11,411	—	31	31
Estonia	—	—	—	—	—	—	—	202	202	—	1	1
Finland	—	—	—	—	—	—	—	695	695	—	2	2
France	—	235	13	—	—	73	—	2,854	2,854	—	8	8
Germany	19	—	—	—	—	46	—	746	746	—	2	2
Guatemala	—	—	—	—	—	—	—	—	1,124	3	—	3
India	—	—	—	—	—	2	—	3,546	3,546	—	10	10
Indonesia	—	—	—	—	—	1,180	—	1,180	1,180	—	3	3
Italy	—	—	53	—	—	108	—	2,653	2,653	—	7	7
Korea, South	237	—	—	—	—	3,334	—	5,300	5,300	—	15	15
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	152	—	—	—	—	152	152	—	0	0
Mexico	1,467	—	—	—	—	2	—	35,658	224,064	516	98	614
Netherlands	—	—	—	—	—	972	—	4,302	4,302	—	12	12
Norway	—	—	—	—	—	—	—	588	1,386	2	2	4
Oman	—	—	—	114	—	49	—	163	163	—	0	0
Portugal	—	—	—	—	—	—	—	489	489	—	1	1
Qatar	13	—	—	—	—	3,578	—	3,591	3,591	—	10	10
Russia	—	—	—	158	—	49	—	117,367	138,308	57	322	379
Spain	—	—	1	—	—	32	—	2,114	2,114	—	6	6
Sweden	—	—	—	—	—	—	—	909	909	—	2	2
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	11,421	31	—	31
United Kingdom	138	—	163	22	—	84	—	3,857	14,215	28	11	39
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	2,623	2,623	—	7	7
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	1,244	0	107	40	30	78	—	15,248	18,235	9	40	51
Total	3,319	515	489	3,349	128	12,179	—	254,730	808,237	1,516	698	2,214
Persian Gulf⁶	13	—	—	451	—	6,015	—	20,865	95,566	205	57	262

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2021
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reform-ulated	Conven- tional	Total	Reform-ulated	Conven- tional	Total
	PAD District 4									
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	110,082	5,649	-	197	-	-	-	-	515	515
Canada	110,082	5,649	-	197	-	-	-	-	515	515
Ecuador	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	-	-	0	0
Total	110,082	5,649	-	197	-	-	-	-	515	515
	PAD District 5									
OPEC	132,661	-	-	5,727	-	791	791	135	2,966	3,101
Algeria	-	-	-	5,072	-	-	-	-	-	-
Angola	4,135	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	46,963	-	-	351	-	-	-	-	-	-
Kuwait	1,654	-	-	-	-	-	-	-	-	-
Libya	18,947	-	-	-	-	-	-	-	-	-
Nigeria	5,309	-	-	-	-	-	-	-	-	-
Saudi Arabia	49,574	-	-	304	-	791	791	135	2,152	2,287
United Arab Emirates	6,079	-	-	-	-	-	-	-	814	814
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	292,599	16,408	-	15,327	-	8,034	8,034	766	12,235	13,001
Argentina	10,130	55	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Brazil	30,288	-	-	-	-	26	26	-	39	39
Brunei	9,160	-	-	-	-	-	-	-	-	-
Canada	90,298	16,164	-	744	-	2,271	2,271	180	591	771
China	-	-	-	-	-	-	-	-	-	-
Colombia	18,845	-	-	-	-	-	-	-	-	-
Ecuador	52,563	-	-	1,179	-	-	-	-	-	-
Finland	-	-	-	-	-	1	1	-	391	391
Germany	-	-	-	-	-	5	5	13	-	13
Indonesia	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	1,762	1,762
Korea, South	-	-	-	-	-	4,340	4,340	-	3,664	3,664
Malaysia	-	-	-	379	-	-	-	-	-	-
Mexico	11,724	-	-	4,436	-	-	-	-	-	-
Netherlands	-	-	-	-	-	85	85	381	122	503
Oman	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-
Peru	2,364	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	419	419
Sweden	-	-	-	-	-	22	22	-	-	-
Taiwan	-	-	-	-	-	-	-	-	778	778
United Kingdom	700	-	-	363	-	-	-	-	932	932
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	678	-	44	44	-	118	118
Other	66,527	189	-	7,548	-	1,240	1,240	192	3,419	3,611
Total	425,260	16,751	-	21,054	-	8,825	8,825	901	15,201	16,102
Persian Gulf ³	104,270	-	-	655	-	791	791	135	2,966	3,101

See footnotes at end of table.

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2021
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygen-ates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total
	PAD District 4										
OPEC	--	--	-	-	-	-	-	-	-	-	-
Algeria	--	--	-	-	-	-	-	-	-	-	-
Angola	--	--	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	--	--	-	-	-	-	-	-	-	-	-
Iran	--	--	-	-	-	-	-	-	-	-	-
Iraq	--	--	-	-	-	-	-	-	-	-	-
Kuwait	--	--	-	-	-	-	-	-	-	-	-
Libya	--	--	-	-	-	-	-	-	-	-	-
Nigeria	--	--	-	-	-	-	-	-	-	-	-
Saudi Arabia	--	--	-	-	-	-	-	-	-	-	-
United Arab Emirates	--	--	-	-	-	-	-	-	-	-	-
Venezuela	--	--	-	-	-	-	-	-	-	-	-
Non-OPEC	--	--	-	286	-	-	2,004	-	-	-	2,004
Canada	--	--	-	286	-	-	2,004	-	-	-	2,004
Ecuador	--	--	-	-	-	-	-	-	-	-	-
Qatar	--	--	-	-	-	-	-	-	-	-	-
Other	--	--	-	0	-	-	0	-	-	-	0
Total	--	--	-	286	-	-	2,004	-	-	-	2,004
	PAD District 5										
OPEC	--	--	-	-	-	-	-	-	-	-	-
Algeria	--	--	-	-	-	-	-	-	-	-	-
Angola	--	--	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	--	--	-	-	-	-	-	-	-	-	-
Iran	--	--	-	-	-	-	-	-	-	-	-
Iraq	--	--	-	-	-	-	-	-	-	-	-
Kuwait	--	--	-	-	-	-	-	-	-	-	-
Libya	--	--	-	-	-	-	-	-	-	-	-
Nigeria	--	--	-	-	-	-	-	-	-	-	-
Saudi Arabia	--	--	-	-	-	-	-	-	-	-	-
United Arab Emirates	--	--	-	-	-	-	-	-	-	-	-
Venezuela	--	--	-	-	-	-	-	-	-	-	-
Non-OPEC	--	--	1,447	1,120	9,290	27	5,655	1,569	-	-	7,224
Argentina	--	--	-	-	-	-	-	-	-	-	-
Aruba	--	--	-	-	-	-	-	-	-	-	-
Australia	--	--	-	-	-	-	-	-	-	-	-
Brazil	--	--	1,447	-	-	-	-	-	-	-	-
Brunei	--	--	-	-	-	-	-	-	-	-	-
Canada	--	--	-	557	-	27	4,853	-	-	-	4,853
China	--	--	-	-	-	-	-	-	-	-	-
Colombia	--	--	-	-	-	-	-	-	-	-	-
Ecuador	--	--	-	-	-	-	-	-	-	-	-
Finland	--	--	-	-	-	-	-	-	-	-	-
Germany	--	--	-	-	-	-	-	-	-	-	-
Indonesia	--	--	-	-	-	-	-	-	-	-	-
Japan	--	--	-	-	-	-	131	-	-	-	131
Korea, South	--	--	-	563	-	-	671	1,569	-	-	2,240
Malaysia	--	--	-	-	-	-	-	-	-	-	-
Mexico	--	--	-	-	-	-	-	-	-	-	-
Netherlands	--	--	-	-	19	-	-	-	-	-	-
Oman	--	--	-	-	-	-	-	-	-	-	-
Papua New Guinea	--	--	-	-	-	-	-	-	-	-	-
Peru	--	--	-	-	-	-	-	-	-	-	-
Qatar	--	--	-	-	-	-	-	-	-	-	-
Singapore	--	--	-	-	-	-	-	-	-	-	-
Sweden	--	--	-	-	-	-	-	-	-	-	-
Taiwan	--	--	-	-	-	-	-	-	-	-	-
United Kingdom	--	--	-	-	-	-	-	-	-	-	-
Vietnam	--	--	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	--	--	-	-	-	-	-	-	-	-	-
Other	--	--	0	0	9,271	0	0	0	-	-	0
Total	--	--	1,447	1,120	9,290	27	5,655	1,569	-	-	7,224
Persian Gulf ³	--	--	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2021
(Thousand Barrels) — Continued

Country of Origin			Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
	PAD District 4								
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	34	-	484	-	-	-	-	-
Canada	-	34	-	484	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Other	-	0	-	0	-	-	-	-	-
Total	-	34	-	484	-	-	-	-	-
	PAD District 5								
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	11	-	34,293	-	-	3,167	3,605	6,772
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	313	-	-	-	-	-
Canada	-	11	-	1,068	-	-	1,123	1,063	2,186
China	-	-	-	907	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	1,267	1,267
Finland	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	96	96
Indonesia	-	-	-	-	-	-	-	-	-
Japan	-	-	-	2,964	-	-	-	75	75
Korea, South	-	-	-	26,913	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	176	176
Netherlands	-	-	-	300	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	331	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	309	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Other	-	0	-	1,188	-	-	2,044	928	2,972
Total	-	11	-	34,293	-	-	3,167	3,605	6,772
Persian Gulf ³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2021
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks								Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Waxes	Petroleum Coke	Asphalt and Road Oil
	PAD District 4											
OPEC	-	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	-	704	-	12	9,885	119,967	302	27	329
Canada	-	-	-	-	704	-	12	9,885	119,967	302	27	329
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	0	-	0	0	0	0	0	0
Total	-	-	-	-	704	-	12	9,885	119,967	302	27	329
	PAD District 5											
OPEC	-	-	-	-	-	-	-	9,962	142,623	363	27	391
Algeria	-	-	-	-	-	-	-	5,072	5,072	-	14	14
Angola	-	-	-	-	-	-	-	135	4,270	11	0	12
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	351	47,314	129	1	130
Kuwait	-	-	-	-	-	-	-	-	1,654	5	-	5
Libya	-	-	-	-	-	-	-	-	18,947	52	-	52
Nigeria	-	-	-	-	-	-	-	-	5,309	15	-	15
Saudi Arabia	-	-	-	-	-	-	-	3,382	52,956	136	9	145
United Arab Emirates	-	-	-	-	-	-	-	814	6,893	17	2	19
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	307	-	354	-	662	323	-	114,600	407,199	802	314	1,116
Argentina	-	-	-	-	-	-	-	55	10,185	28	0	28
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	1,512	31,800	83	4	87
Brunei	-	-	-	-	-	-	-	313	9,473	25	1	26
Canada	4	-	-	-	662	108	-	29,426	119,724	247	81	328
China	-	-	127	-	-	-	-	1,034	1,034	-	3	3
Colombia	-	-	-	-	-	-	-	-	18,845	52	-	52
Ecuador	-	-	-	-	-	-	-	2,446	55,009	144	7	151
Finland	-	-	-	-	-	-	-	392	392	-	1	1
Germany	-	-	-	-	-	-	-	114	114	-	0	0
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	33	-	-	-	-	4,965	4,965	-	14	14
Korea, South	-	-	-	-	-	91	-	37,811	37,811	-	104	104
Malaysia	-	-	1	-	-	-	-	380	380	-	1	1
Mexico	-	-	-	-	-	-	-	4,612	16,336	32	13	45
Netherlands	-	-	21	-	-	-	-	928	928	-	3	3
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	2,364	6	-	6
Qatar	-	-	-	-	-	124	-	124	124	-	0	0
Singapore	-	-	-	-	-	-	-	10,021	10,021	-	27	27
Sweden	-	-	-	-	-	-	-	22	22	-	0	0
Taiwan	303	-	172	-	-	-	-	1,562	1,562	-	4	4
United Kingdom	-	-	-	-	-	-	-	1,295	1,995	2	4	5
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	840	840	-	2	2
Other	0	-	0	-	0	0	-	16,748	83,275	183	45	229
Total	307	-	354	-	662	323	-	124,562	549,822	1,165	341	1,506
Persian Gulf ³	-	-	-	-	-	124	-	4,671	108,941	286	13	298

-- = Not Applicable.

- = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 49. Exports of Crude Oil and Petroleum Products by PAD District, December 2021
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	735	2,105	103,153	1	1,028	107,023	3,452
Hydrocarbon Gas Liquids	5,726	8,165	56,661	54	1,488	72,093	2,326
Natural Gas Liquids	5,726	8,165	56,661	54	1,488	72,093	2,326
Ethane	2,116	2,480	8,754	—	0	13,350	431
Propane	3,237	98	38,207	1	821	42,363	1,367
Normal Butane	295	56	9,283	—	603	10,236	330
Isobutane	1	3	56	—	—	60	2
Natural Gasoline	77	5,528	360	53	65	6,083	196
Refinery Olefins	—	—	—	—	—	—	—
Ethylene	—	—	—	—	—	—	—
Propylene	—	—	—	—	—	—	—
Normal Butylene	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—
Other Liquids	270	3,068	17,675	12	496	21,521	694
Hydrogen/Oxygenates/Renewables/							
Other Hydrocarbons	135	710	1,883	9	281	3,018	97
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
Other Oxygenates	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol) ...	135	710	1,883	9	281	3,018	97
Fuel Ethanol	132	677	1,749	1	257	2,814	91
Biodiesel	3	33	134	8	24	204	7
Other Renewable Diesel	—	—	—	—	—	—	—
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—
Unfinished Oils	20	2,306	11,911	—	75	14,313	462
Naphthas and Lighter	10	2,294	11,524	—	60	13,888	448
Kerosene and Light Gas Oils	11	12	387	—	15	425	14
Heavy Gas Oils	—	—	—	—	—	—	—
Residuum	—	—	—	—	—	—	—
Motor Gasoline Blend.Comp. (MGBC)	115	51	3,881	4	140	4,190	135
Reformulated	0	—	1	—	2	3	0
Conventional	115	51	3,880	4	138	4,188	135
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	2,962	1,520	85,765	16	7,262	97,524	3,146
Finished Motor Gasoline	33	326	27,122	0	1,680	29,161	941
Reformulated	—	—	—	—	—	—	—
Conventional	33	326	27,122	0	1,680	29,161	941
Finished Aviation Gasoline	—	—	—	—	—	—	—
Kerosene-Type Jet Fuel	84	8	3,962	—	930	4,984	161
Kerosene	1	0	735	—	—	736	24
Distillate Fuel Oil	1,570	89	38,000	0	1,776	41,434	1,337
15 ppm sulfur and under	677	0	32,158	0	1,311	34,147	1,102
Greater than 15 ppm to 500 ppm sulfur	850	37	1,090	—	334	2,310	75
Greater than 500 ppm sulfur	42	52	4,752	—	131	4,977	161
Residual Fuel Oil	410	232	1,148	5	7	1,803	58
Naphtha for Petro. Feed. Use	—	—	—	—	—	—	—
Other Oils for Petro. Feed. Use	—	—	—	—	—	—	—
Special Naphthas	—	—	—	—	—	—	—
Lubricants	425	155	2,381	9	72	3,043	98
Waxes	90	39	37	0	4	170	5
Petroleum Coke	228	588	11,925	—	2,768	15,509	500
Asphalt and Road Oil	107	80	439	1	23	652	21
Miscellaneous Products	14	3	16	—	0	32	1
Total	9,693	14,857	263,253	84	10,274	298,161	9,618

— = Not Applicable.

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 50. Year-to-Date Exports of Crude Oil and Petroleum Products by PAD District, January-December 2021
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	5,780	34,098	1,037,858	1	9,901	1,087,638	2,980
Hydrocarbon Gas Liquids	98,735	103,031	627,416	910	17,923	848,015	2,323
Natural Gas Liquids	98,735	103,031	627,416	910	17,923	848,015	2,323
Ethane	27,168	31,658	88,752	5	1	147,584	404
Propane	50,865	1,687	417,013	18	9,202	477,616	1,309
Normal Butane	19,689	1,343	120,576	63	8,432	149,693	410
Isobutane	8	24	1,144	0	7	1,181	3
Natural Gasoline	1,059	68,328	1,402	824	328	71,941	197
Refinery Olefins	--	--	--	--	--	--	--
Ethylene	--	--	--	--	--	--	--
Propylene	--	--	--	--	--	--	--
Normal Butylene	--	--	--	--	--	--	--
Isobutylene	--	--	--	--	--	--	--
Other Liquids	2,423	29,156	170,660	174	6,350	208,763	572
Hydrogen/Oxygenates/Renewables/							
Other Hydrocarbons	1,820	8,975	19,753	165	3,430	34,145	94
Hydrogen	--	--	--	--	--	--	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--
Methyl Tertiary Butyl Ether (MTBE)	--	--	--	--	--	--	--
Other Oxygenates	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol) ...	1,820	8,975	19,753	165	3,430	34,145	94
Fuel Ethanol	1,509	6,887	18,807	56	2,543	29,803	82
Biodiesel	311	2,088	947	109	887	4,342	12
Other Renewable Diesel	--	--	--	--	--	--	--
Other Renewable Fuels	--	--	--	--	--	--	--
Other Hydrocarbons	--	--	--	--	--	--	--
Unfinished Oils	306	19,124	119,805	2	920	140,157	384
Naphthas and Lighter	122	19,031	116,493	0	721	136,367	374
Kerosene and Light Gas Oils	183	93	3,312	2	199	3,789	10
Heavy Gas Oils	--	--	--	--	--	--	--
Residuum	--	--	--	--	--	--	--
Motor Gasoline Blend.Comp. (MGBC)	297	1,057	31,102	6	2,000	34,461	94
Reformulated	4	1	32	--	39	77	0
Conventional	292	1,056	31,070	6	1,961	34,385	94
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--
Finished Petroleum Products	27,476	14,680	872,821	262	91,177	1,006,415	2,757
Finished Motor Gasoline	1,845	3,139	279,552	14	15,949	300,499	823
Reformulated	--	--	--	--	--	--	--
Conventional	1,845	3,139	279,552	14	15,949	300,499	823
Finished Aviation Gasoline	--	--	--	--	--	--	--
Kerosene-Type Jet Fuel	1,760	158	30,625	--	6,257	38,800	106
Kerosene	81	6	1,844	--	249	2,179	6
Distillate Fuel Oil	8,496	1,275	366,493	0	22,025	398,289	1,091
15 ppm sulfur and under	4,202	132	314,702	0	15,143	334,178	916
Greater than 15 ppm to 500 ppm sulfur	3,261	213	21,276	0	2,941	27,692	76
Greater than 500 ppm sulfur	1,032	930	30,515	--	3,941	36,418	100
Residual Fuel Oil	3,953	1,747	22,268	81	6,411	34,460	94
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--
Lubricants	2,324	2,351	28,355	140	3,971	37,141	102
Waxes	1,029	432	300	5	45	1,811	5
Petroleum Coke	6,861	4,386	138,255	0	35,949	185,450	508
Asphalt and Road Oil	944	1,163	4,934	21	319	7,382	20
Miscellaneous Products	183	23	194	--	3	403	1
Total	134,415	180,965	2,708,755	1,346	125,351	3,150,831	8,632

-- = Not Applicable.

-- = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, December 2021
(Thousand Barrels)

Destination	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
Argentina	—	—	—	199	—	—	—	—	—	—
Australia	752	582	—	3	—	—	—	0	—	0
Bahamas	—	21	—	0	—	297	297	—	0	0
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	25	1,572	—	7	—	—	—	—	—	—
Belize	—	25	—	—	—	—	—	—	—	—
Brazil	566	79	—	2,378	—	540	540	—	—	—
Canada	10,424	8,386	—	2,367	—	897	897	—	1,114	1,114
Cayman Islands	—	—	—	—	—	60	60	—	0	0
Chile	—	266	—	20	—	518	518	—	152	152
China	6,375	6,462	—	3	—	—	—	—	—	—
Colombia	549	78	—	1,005	—	1,321	1,321	—	1,236	1,236
Costa Rica	—	246	—	14	—	912	912	—	—	—
Denmark	696	—	—	—	—	—	—	—	—	—
Dominican Republic	1,076	1,890	—	0	—	291	291	—	—	—
Ecuador	—	524	—	311	—	596	596	—	0	0
Egypt	—	1,265	—	—	—	—	—	—	—	—
El Salvador	—	237	—	1	—	465	465	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—
France	2,978	2,436	—	342	—	—	—	—	—	—
Germany	2,804	7	—	1	—	—	—	—	—	—
Ghana	—	—	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	—	—	—	—	—
Greece	—	0	—	—	—	—	—	—	—	—
Guatemala	—	412	—	6	—	1,675	1,675	0	0	0
Honduras	—	339	—	1	—	635	635	—	0	0
Hong Kong	—	—	—	0	—	—	—	—	—	—
India	20,838	2,139	—	0	—	—	—	—	—	—
Indonesia	—	2,670	—	1	—	—	—	—	—	—
Ireland	670	—	—	120	—	—	—	—	—	—
Israel	—	—	—	0	—	—	—	—	—	—
Italy	5,276	267	—	8	—	—	—	—	—	—
Jamaica	—	19	—	—	—	6	6	—	4	4
Japan	—	14,424	—	1,787	—	0	0	1	—	1
Korea, South	10,655	4,592	—	2,121	—	2	2	0	0	1
Lebanon	—	—	—	—	—	—	—	—	—	—
Mexico	—	5,990	—	369	—	18,845	18,845	—	1,288	1,288
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	1,727	—	—	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—	—	—
Netherlands	11,706	1,761	—	972	—	—	—	—	—	—
New Zealand	—	—	—	0	—	0	0	—	—	—
Nicaragua	290	—	—	—	—	28	28	—	—	—
Nigeria	—	476	—	—	—	—	—	—	—	—
Norway	732	1,203	—	—	—	—	—	—	—	—
Pakistan	—	—	—	—	—	—	—	—	—	—
Panama	—	320	—	0	—	656	656	—	270	270
Peru	730	148	—	638	—	986	986	—	41	41
Philippines	—	—	—	—	—	—	—	—	—	—
Portugal	—	686	—	—	—	—	—	—	—	—
Puerto Rico	—	0	—	3	—	1	1	—	0	0
Romania	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	0	—	—	—	—	—	—
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—	—	—
Singapore	5,498	1,188	—	535	—	1	1	0	—	0
South Africa	—	459	—	—	—	—	—	—	—	—
Spain	3,545	550	—	—	—	—	—	—	—	—
Switzerland	4,560	1,788	—	322	—	—	—	—	—	—
Taiwan	4,929	0	—	641	—	—	—	—	1	1
Thailand	2,209	—	—	0	—	—	—	—	—	—
Trinidad and Tobago	—	2	—	0	—	1	1	—	—	—
Turkey	—	558	—	—	—	0	0	—	—	—
United Arab Emirates	—	—	—	0	—	1	1	—	0	0
United Kingdom	7,523	2,364	—	0	—	—	—	—	80	80
Venezuela	—	2	—	1	—	0	0	—	—	—
Other	1,617	3,933	—	137	—	427	427	2	2	2
Total	107,023	72,093	—	14,313	—	29,161	29,161	3	4,188	4,190

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, December 2021
(Thousand Barrels) — Continued

Destination	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
Argentina	---	---	0	—	—	—	0	—	—	—	0
Australia	---	---	0	—	—	—	—	—	—	—	—
Bahamas	---	---	0	—	—	—	67	—	240	—	307
Bahrain	---	---	—	—	—	—	—	—	—	—	—
Belgium	---	---	0	—	—	—	507	—	—	—	507
Belize	---	---	0	—	—	—	436	—	—	—	436
Brazil	---	---	306	0	—	—	5,012	—	1,007	—	6,020
Canada	---	---	866	68	—	—	2	195	162	—	360
Cayman Islands	---	---	0	—	—	—	115	—	—	—	115
Chile	---	---	0	—	—	—	3,561	175	—	—	3,736
China	---	---	0	—	—	—	0	—	0	—	0
Colombia	---	---	32	—	—	—	1,333	—	—	—	1,333
Costa Rica	---	---	0	—	—	—	739	—	—	—	739
Denmark	---	---	—	—	—	—	—	—	—	—	—
Dominican Republic	---	---	1	—	—	—	396	190	—	—	586
Ecuador	---	---	—	—	—	—	299	—	565	—	864
Egypt	---	---	—	—	—	—	—	—	—	—	—
El Salvador	---	---	—	—	—	—	121	145	113	—	379
Finland	---	---	—	—	—	—	0	—	—	—	0
France	---	---	—	—	—	—	—	—	—	—	—
Germany	---	---	50	1	—	—	0	—	—	—	0
Ghana	---	---	—	—	—	—	—	—	—	—	—
Gibraltar	---	---	—	—	—	—	118	—	—	—	118
Greece	---	---	—	—	—	—	—	—	—	—	—
Guatemala	---	---	0	—	—	—	325	441	542	—	1,308
Honduras	---	---	—	—	—	—	332	330	120	—	782
Hong Kong	---	---	—	—	—	—	—	—	—	—	—
India	---	---	380	—	—	—	—	—	—	—	—
Indonesia	---	---	0	—	—	—	—	—	—	—	—
Ireland	---	---	—	—	—	—	—	—	—	—	—
Israel	---	---	8	—	—	—	—	—	—	—	—
Italy	---	---	—	—	—	—	—	—	—	—	—
Jamaica	---	---	21	—	—	—	0	3	115	—	118
Japan	---	---	22	—	—	—	3	—	—	—	3
Korea, South	---	---	341	—	—	—	2	—	—	—	2
Lebanon	---	---	—	—	—	—	—	—	—	—	—
Mexico	---	---	157	—	—	—	10,913	178	3	—	11,094
Montenegro	---	---	—	—	—	—	—	—	—	—	—
Morocco	---	---	—	—	—	—	—	—	—	—	—
Mozambique	---	---	—	—	—	—	—	—	—	—	—
Netherlands	---	---	189	—	—	—	569	—	100	—	669
New Zealand	---	---	0	—	—	—	—	—	—	—	—
Nicaragua	---	---	0	—	—	—	—	305	45	—	350
Nigeria	---	---	205	—	—	—	0	—	—	—	0
Norway	---	---	—	—	—	—	660	—	—	—	660
Pakistan	---	---	0	—	—	—	—	—	—	—	—
Panama	---	---	—	0	—	—	2,516	325	497	—	3,339
Peru	---	---	37	134	—	—	3,007	—	—	—	3,007
Philippines	---	---	0	—	—	—	—	—	—	—	—
Portugal	---	---	—	—	—	—	—	—	—	—	—
Puerto Rico	---	---	5	—	—	—	1	—	0	—	1
Romania	---	---	—	—	—	—	—	—	—	—	—
Saudi Arabia	---	---	—	—	—	—	0	—	—	—	0
Serbia (Excludes Kosovo) ..	---	---	—	—	—	—	—	—	—	—	—
Singapore	---	---	24	0	—	—	375	—	—	—	375
South Africa	---	---	—	—	—	—	—	—	—	—	—
Spain	---	---	—	—	—	—	—	—	—	—	—
Switzerland	---	---	—	—	—	—	40	—	—	—	40
Taiwan	---	---	—	—	—	—	—	—	—	—	—
Thailand	---	---	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	---	---	0	—	—	—	511	—	—	—	511
Turkey	---	---	33	—	—	—	0	—	—	—	0
United Arab Emirates	---	---	—	—	—	—	—	—	0	—	0
United Kingdom	---	---	94	0	—	—	300	—	—	—	300
Venezuela	---	---	—	—	—	—	0	1	—	—	1
Other	---	---	43	1	—	—	1,887	22	1,468	—	3,374
Total	---	---	2,814	204	—	—	34,147	2,310	4,977	—	41,434

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, December 2021
(Thousand Barrels) — Continued

Destination	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
Argentina	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—
Bahamas	—	—	—	6	—	265	—	—
Bahrain	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—
Belize	—	—	—	—	—	—	—	—
Brazil	519	—	—	0	—	—	—	—
Canada	1	—	—	686	—	302	—	—
Cayman Islands	—	—	—	72	—	—	—	—
Chile	—	—	—	313	—	—	—	—
China	—	—	—	—	—	3	—	—
Colombia	3	—	—	—	—	65	—	—
Costa Rica	—	—	—	165	—	—	—	—
Denmark	—	—	—	—	—	—	—	—
Dominican Republic	—	—	—	235	—	196	—	—
Ecuador	0	—	—	1	—	—	—	—
Egypt	—	—	—	—	—	—	—	—
El Salvador	—	—	—	45	—	—	—	—
Finland	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—
Ghana	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	—	—	—
Greece	—	—	—	—	—	—	—	—
Guatemala	—	—	—	130	—	—	—	—
Honduras	—	—	—	38	—	—	—	—
Hong Kong	—	—	—	—	—	—	—	—
India	—	—	—	0	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	—
Israel	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—
Jamaica	—	—	—	50	—	—	—	—
Japan	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	72	—	—
Lebanon	—	—	—	—	—	—	—	—
Mexico	1	—	—	2,048	—	407	—	—
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	—	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—
Netherlands	187	—	—	—	—	—	—	—
New Zealand	—	—	—	—	—	0	—	—
Nicaragua	20	—	—	0	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—
Pakistan	—	—	—	—	—	—	—	—
Panama	4	—	—	643	—	395	—	—
Peru	—	—	—	399	—	—	—	—
Philippines	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—
Puerto Rico	0	—	—	0	—	—	—	—
Romania	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	6	—	—	—	—
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—
Singapore	0	—	—	—	—	0	—	—
South Africa	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—
Switzerland	—	—	—	—	—	—	—	—
Taiwan	0	—	—	—	—	—	—	—
Thailand	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—
Turkey	—	—	—	—	—	—	—	—
United Arab Emirates	0	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	0	—	—
Venezuela	—	—	—	—	—	—	—	—
Other	1	—	—	147	—	98	—	—
Total	736	—	—	4,984	—	1,803	—	—

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, December 2021
(Thousand Barrels) — Continued

Destination	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
Argentina	0	—	0	70	—	270	270	—	9	9
Australia	1	154	0	7	—	748	1,500	24	24	48
Bahamas	—	—	5	1	0	903	903	—	29	29
Bahrain	—	—	—	0	—	0	0	—	0	0
Belgium	0	166	—	463	0	2,714	2,739	1	88	88
Belize	—	—	—	1	—	462	462	—	15	15
Brazil	0	1,241	—	294	1	11,378	11,944	18	367	385
Canada	118	409	141	290	8	16,013	26,436	336	517	853
Cayman Islands	—	—	0	1	—	248	248	—	8	8
Chile	0	—	0	90	—	5,097	5,097	—	164	164
China	3	1,484	2	13	1	7,970	14,345	206	257	463
Colombia	1	0	0	83	0	5,158	5,708	18	166	184
Costa Rica	0	—	21	26	0	2,125	2,125	—	69	69
Denmark	—	167	—	0	—	167	863	22	5	28
Dominican Republic	0	—	70	18	0	3,288	4,364	35	106	141
Ecuador	0	417	0	40	—	2,754	2,754	—	89	89
Egypt	—	—	—	0	—	1,265	1,265	—	41	41
El Salvador	—	—	—	6	—	1,133	1,133	—	37	37
Finland	—	—	—	2	—	3	3	—	0	0
France	0	8	—	1	—	2,787	5,766	96	90	186
Germany	5	0	0	3	0	67	2,871	90	2	93
Ghana	—	44	—	0	—	44	44	—	1	1
Gibraltar	—	—	—	—	—	118	118	—	4	4
Greece	—	—	—	0	—	0	0	—	0	0
Guatemala	0	982	—	13	—	4,526	4,526	—	146	146
Honduras	0	295	42	8	0	2,141	2,141	—	69	69
Hong Kong	0	—	—	1	0	1	1	—	0	0
India	2	1,506	0	196	0	4,223	25,061	672	136	808
Indonesia	0	—	1	0	—	2,673	2,673	—	86	86
Ireland	—	—	—	0	0	121	791	22	4	26
Israel	0	—	—	1	—	9	9	—	0	0
Italy	0	655	—	0	—	930	6,206	170	30	200
Jamaica	—	—	—	5	0	222	222	—	7	7
Japan	0	2,286	1	10	2	18,538	18,538	—	598	598
Korea, South	0	291	1	6	0	7,428	18,082	344	240	583
Lebanon	—	117	—	0	—	117	117	—	4	4
Mexico	18	1,723	260	943	16	43,160	43,160	—	1,392	1,392
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	265	—	—	—	1,992	1,992	—	64	64
Mozambique	—	99	—	—	—	99	99	—	3	3
Netherlands	19	576	1	2	0	4,376	16,082	378	141	519
New Zealand	0	—	71	1	—	72	72	—	2	2
Nicaragua	—	0	—	6	—	404	694	9	13	22
Nigeria	—	—	—	118	—	799	799	—	26	26
Norway	—	128	—	1	—	1,991	2,723	24	64	88
Pakistan	0	—	—	—	—	0	0	—	0	0
Panama	—	—	—	16	—	5,644	5,644	—	182	182
Peru	0	—	—	81	0	5,472	6,202	24	177	200
Philippines	—	0	—	1	—	2	2	—	0	0
Portugal	—	—	—	0	—	686	686	—	22	22
Puerto Rico	1	—	0	13	—	25	25	—	1	1
Romania	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	0	—	—	3	0	10	10	—	0	0
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—	—	—
Singapore	0	—	—	2	0	2,126	7,624	177	69	246
South Africa	0	75	0	30	—	564	564	—	18	18
Spain	1	133	—	3	—	687	4,231	114	22	136
Switzerland	—	—	26	0	—	2,176	6,736	147	70	217
Taiwan	0	—	0	4	0	647	5,577	159	21	180
Thailand	0	1	0	7	0	8	2,217	71	0	72
Trinidad and Tobago	—	0	—	3	0	517	517	—	17	17
Turkey	—	1,286	—	41	—	1,919	1,919	—	62	62
United Arab Emirates	0	0	2	44	—	48	48	—	2	2
United Kingdom	0	338	—	25	—	3,202	10,725	243	103	346
Venezuela	—	—	—	6	—	11	11	—	0	0
Other	1	663	8	44	4	8,860	10,477	52	287	339
Total	170	15,509	652	3,043	32	191,138	298,161	3,452	6,166	9,618

-- = Not Applicable.

- = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-December 2021
(Thousand Barrels)

Destination	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
Argentina	8	0	--	1,215	--	392	392	--	--	--
Australia	4,619	4,599	--	30	--	0	0	3	0	3
Bahamas	--	1,041	--	762	--	2,222	2,222	0	146	146
Bahrain	--	--	--	0	--	3	3	--	--	--
Belgium	1,267	8,644	--	3,174	--	1	1	0	0	0
Belize	--	206	--	--	--	519	519	--	0	0
Brazil	22,029	17,881	--	28,676	--	17,700	17,700	0	0	0
Canada	114,411	106,037	--	19,339	--	8,174	8,174	--	10,847	10,847
Cayman Islands	--	47	--	--	--	240	240	1	41	41
Chile	5,959	14,092	--	234	--	6,499	6,499	1	1,469	1,470
China	90,672	91,140	--	41	--	7	7	--	0	0
Colombia	6,423	305	--	10,966	--	12,846	12,846	0	2,951	2,952
Costa Rica	--	2,220	--	87	--	8,382	8,382	--	153	153
Denmark	12,176	--	--	246	--	--	--	1	0	2
Dominican Republic	8,036	13,520	--	3	--	3,675	3,675	--	515	515
Ecuador	--	12,753	--	731	--	6,579	6,579	--	33	33
Egypt	--	12,717	--	0	--	58	58	--	--	--
El Salvador	--	3,186	--	6	--	6,271	6,271	--	0	0
Finland	1	3,458	--	0	--	--	--	--	--	--
France	36,565	8,569	--	628	--	1	1	--	0	0
Germany	27,938	237	--	30	--	2	2	--	0	0
Ghana	--	657	--	0	--	330	330	--	--	--
Gibraltar	--	2,059	--	--	--	--	--	--	--	--
Greece	--	550	--	326	--	0	0	--	--	--
Guatemala	--	3,812	--	42	--	17,711	17,711	0	2	3
Honduras	--	5,418	--	11	--	6,548	6,548	--	75	75
Hong Kong	--	0	--	652	--	11	11	--	--	--
India	151,652	55,618	--	349	--	20	20	--	1	1
Indonesia	1,397	46,447	--	7	--	--	--	--	--	--
Ireland	13,002	--	--	120	--	1	1	--	80	80
Israel	3,034	1	--	66	--	8	8	--	0	0
Italy	41,852	1,278	--	24	--	0	0	--	--	--
Jamaica	--	388	--	2	--	1,037	1,037	--	5	5
Japan	2,750	145,358	--	16,234	--	4	4	10	183	193
Korea, South	127,380	56,390	--	14,923	--	17	17	6	25	30
Lebanon	--	--	--	--	--	1	1	--	--	--
Mexico	--	66,654	--	6,037	--	170,365	170,365	28	15,345	15,373
Montenegro	--	--	--	--	--	--	--	--	--	--
Morocco	--	14,096	--	--	--	--	--	--	--	--
Mozambique	--	--	--	--	--	--	--	--	--	--
Netherlands	112,107	19,794	--	17,133	--	289	289	20	589	609
New Zealand	--	2	--	1	--	1	1	--	--	--
Nicaragua	3,065	0	--	--	--	1,134	1,134	--	--	--
Nigeria	--	6,654	--	0	--	2,113	2,113	--	--	--
Norway	11,361	13,759	--	1,032	--	--	--	--	0	0
Pakistan	--	--	--	--	--	0	0	--	--	--
Panama	5,300	1,112	--	7	--	9,534	9,534	0	401	401
Peru	6,896	4,428	--	1,106	--	9,200	9,200	1	767	768
Philippines	--	525	--	2	--	--	--	--	--	--
Portugal	5,853	8,393	--	300	--	--	--	--	0	0
Puerto Rico	--	336	--	35	--	337	337	1	4	5
Romania	--	--	--	--	--	--	--	--	--	--
Saudi Arabia	--	0	--	7	--	3	3	--	1	1
Serbia (Excludes Kosovo) ..	--	--	--	--	--	--	--	--	--	--
Singapore	53,121	14,738	--	5,348	--	910	910	0	0	1
South Africa	798	3,867	--	0	--	320	320	--	--	--
Spain	30,047	4,068	--	133	--	221	221	--	--	--
Switzerland	8,132	6,985	--	2,035	--	--	--	--	--	--
Taiwan	55,482	593	--	3,652	--	7	7	0	1	1
Thailand	14,003	0	--	23	--	--	--	--	--	--
Trinidad and Tobago	--	49	--	3	--	1,265	1,265	--	--	--
Turkey	--	15,607	--	0	--	1	1	--	0	0
United Arab Emirates	--	0	--	4	--	6	6	--	0	0
United Kingdom	84,501	17,563	--	2,561	--	183	183	--	744	744
Venezuela	--	5	--	3	--	3	3	1	0	2
Other	25,801	30,159	--	1,811	--	5,348	5,348	4	7	7
Total	1,087,638	848,015	--	140,157	--	300,499	300,499	77	34,385	34,461

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-December 2021
(Thousand Barrels) — Continued

Destination	Oxygenates		Renewable Fuels				Distillate Fuel Oil				
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total
Argentina	---	---	0	—	—	—	3,150	1,108	941	—	5,199
Australia	---	---	34	0	—	—	4	—	—	—	4
Bahamas	---	---	1	—	—	—	3,199	18	3,165	—	6,382
Bahrain	---	---	1	—	—	—	0	—	—	—	0
Belgium	---	---	2	0	—	—	1,427	—	250	—	1,676
Belize	---	---	0	—	—	—	1,199	—	—	—	1,199
Brazil	---	---	1,808	0	—	—	46,278	3,409	2,364	—	52,051
Canada	---	---	8,825	3,361	—	—	141	4,495	1,284	—	5,920
Cayman Islands	---	---	0	—	—	—	2,054	—	—	—	2,054
Chile	---	---	5	1	—	—	35,500	485	642	—	36,628
China	---	---	2,385	—	—	—	10	—	1	—	12
Colombia	---	---	852	—	—	—	9,000	150	1	—	9,151
Costa Rica	---	---	3	—	—	—	7,452	—	—	—	7,452
Denmark	---	---	—	—	—	—	596	77	—	—	673
Dominican Republic	---	---	12	—	—	—	2,571	688	2,171	—	5,430
Ecuador	---	---	0	—	—	—	5,324	2,168	2,193	—	9,685
Egypt	---	---	2	—	—	—	5	—	—	—	5
El Salvador	---	---	0	—	—	—	1,486	739	1,126	—	3,351
Finland	---	---	407	—	—	—	2	—	—	—	2
France	---	---	175	—	—	—	331	—	—	—	331
Germany	---	---	56	12	—	—	1	—	—	—	1
Ghana	---	---	—	—	—	—	—	—	—	—	—
Gibraltar	---	---	—	—	—	—	3,793	164	2,957	—	6,914
Greece	---	---	1	—	—	—	—	—	—	—	—
Guatemala	---	---	0	—	—	—	8,521	1,025	3,361	—	12,907
Honduras	---	---	0	—	—	—	9,050	916	257	—	10,223
Hong Kong	---	---	0	—	—	—	—	—	—	—	—
India	---	---	3,734	—	—	—	74	35	15	—	123
Indonesia	---	---	0	0	—	—	1,349	—	—	—	1,349
Ireland	---	---	0	—	—	—	316	—	—	—	316
Israel	---	---	14	—	—	—	0	—	—	—	0
Italy	---	---	45	0	—	—	0	359	—	—	359
Jamaica	---	---	408	—	—	—	1,219	395	659	—	2,273
Japan	---	---	28	—	—	—	10	—	—	—	10
Korea, South	---	---	3,612	4	—	—	840	0	—	—	840
Lebanon	---	---	—	—	—	—	0	—	—	—	0
Mexico	---	---	1,209	36	—	—	103,601	809	864	—	105,274
Montenegro	---	---	—	—	—	—	—	—	—	—	—
Morocco	---	---	—	—	—	—	326	—	—	—	326
Mozambique	---	---	—	—	—	—	—	—	—	—	—
Netherlands	---	---	1,045	199	—	—	3,200	610	1,225	—	5,035
New Zealand	---	---	0	0	—	—	0	—	—	—	0
Nicaragua	---	---	0	—	—	—	932	795	972	—	2,699
Nigeria	---	---	1,052	0	—	—	3	—	—	—	3
Norway	---	---	69	2	—	—	1,690	—	—	—	1,690
Pakistan	---	---	0	—	—	—	—	—	—	—	—
Panama	---	---	0	0	—	—	20,349	4,075	1,550	—	25,974
Peru	---	---	1,041	474	—	—	24,568	0	602	—	25,171
Philippines	---	---	768	—	—	—	—	—	—	—	—
Portugal	---	---	—	—	—	—	0	—	—	—	0
Puerto Rico	---	---	42	—	—	—	58	3	1	—	62
Romania	---	---	—	—	—	—	230	—	—	—	230
Saudi Arabia	---	---	481	—	—	—	13	—	—	—	13
Serbia (Excludes Kosovo) ..	---	---	—	—	—	—	—	—	—	—	—
Singapore	---	---	158	169	—	—	7,739	80	1,928	—	9,747
South Africa	---	---	0	—	—	—	0	—	—	—	0
Spain	---	---	0	—	—	—	158	—	443	—	601
Switzerland	---	---	51	—	—	—	656	35	15	—	706
Taiwan	---	---	3	0	—	—	1	—	—	—	1
Thailand	---	---	0	—	—	—	1	—	—	—	1
Trinidad and Tobago	---	---	1	—	—	—	2,609	915	1,543	—	5,067
Turkey	---	---	189	0	—	—	2	—	—	—	2
United Arab Emirates	---	---	1	—	—	—	5	—	0	—	5
United Kingdom	---	---	987	0	—	—	8,852	—	620	—	9,472
Venezuela	---	---	0	—	—	—	27	1	—	—	28
Other	---	---	296	84	—	—	14,256	4,138	5,268	—	23,662
Total	---	---	29,803	4,342	—	—	334,178	27,692	36,418	—	398,289

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-December 2021
(Thousand Barrels) — Continued

Destination	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
Argentina	0	—	—	156	—	—	—	—
Australia	0	—	—	0	—	0	—	—
Bahamas	—	—	—	578	—	2,158	—	—
Bahrain	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	0	—	—
Belize	—	—	—	32	—	—	—	—
Brazil	628	—	—	153	—	—	—	—
Canada	567	—	—	5,407	—	8,602	—	—
Cayman Islands	—	—	—	121	—	1	—	—
Chile	0	—	—	3,343	—	2,404	—	—
China	0	—	—	1	—	23	—	—
Colombia	26	—	—	292	—	66	—	—
Costa Rica	0	—	—	1,423	—	—	—	—
Denmark	—	—	—	—	—	—	—	—
Dominican Republic	1	—	—	1,486	—	1,336	—	—
Ecuador	10	—	—	3	—	0	—	—
Egypt	0	—	—	1	—	—	—	—
El Salvador	0	—	—	502	—	0	—	—
Finland	—	—	—	—	—	0	—	—
France	—	—	—	0	—	0	—	—
Germany	—	—	—	—	—	6	—	—
Ghana	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	149	—	—	—	—
Greece	—	—	—	0	—	—	—	—
Guatemala	0	—	—	965	—	0	—	—
Honduras	0	—	—	693	—	75	—	—
Hong Kong	0	—	—	—	—	0	—	—
India	—	—	—	0	—	5	—	—
Indonesia	—	—	—	—	—	0	—	—
Ireland	—	—	—	—	—	—	—	—
Israel	0	—	—	1,488	—	0	—	—
Italy	—	—	—	—	—	—	—	—
Jamaica	0	—	—	211	—	369	—	—
Japan	0	—	—	0	—	2	—	—
Korea, South	0	—	—	0	—	73	—	—
Lebanon	—	—	—	0	—	507	—	—
Mexico	639	—	—	15,518	—	4,991	—	—
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	—	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—
Netherlands	187	—	—	—	—	1,570	—	—
New Zealand	0	—	—	0	—	0	—	—
Nicaragua	76	—	—	176	—	—	—	—
Nigeria	—	—	—	0	—	—	—	—
Norway	—	—	—	—	—	—	—	—
Pakistan	—	—	—	—	—	—	—	—
Panama	16	—	—	3,060	—	3,604	—	—
Peru	9	—	—	1,001	—	2	—	—
Philippines	—	—	—	—	—	0	—	—
Portugal	—	—	—	—	—	—	—	—
Puerto Rico	0	—	—	126	—	0	—	—
Romania	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	11	—	2,432	—	—
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—
Singapore	8	—	—	0	—	3,395	—	—
South Africa	—	—	—	0	—	1	—	—
Spain	—	—	—	302	—	—	—	—
Switzerland	—	—	—	—	—	—	—	—
Taiwan	0	—	—	0	—	1	—	—
Thailand	—	—	—	0	—	0	—	—
Trinidad and Tobago	—	—	—	1	—	—	—	—
Turkey	—	—	—	—	—	9	—	—
United Arab Emirates	3	—	—	2	—	1	—	—
United Kingdom	4	—	—	350	—	341	—	—
Venezuela	0	—	—	—	—	6	—	—
Other	5	—	—	1,249	—	2,480	—	—
Total	2,179	—	—	38,800	—	34,460	—	—

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-December 2021
(Thousand Barrels) — Continued

Destination	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
Argentina	2	169	342	511	0	7,988	7,996	0	22	22
Australia	10	2,730	3	66	3	7,483	12,102	13	21	33
Bahamas	—	—	24	24	2	13,341	13,341	—	37	37
Bahrain	0	—	0	2	—	6	6	—	0	0
Belgium	1	1,649	3	5,219	10	20,379	21,646	3	56	59
Belize	—	—	—	14	—	1,971	1,971	—	5	5
Brazil	9	18,751	1	4,367	10	142,035	164,064	60	389	449
Canada	1,349	6,527	2,090	3,604	83	190,731	305,142	313	523	836
Cayman Islands	—	—	16	12	0	2,532	2,532	—	7	7
Chile	6	3	406	946	0	66,037	71,996	16	181	197
China	32	32,032	11	202	8	125,894	216,566	248	345	593
Colombia	3	0	2	1,210	4	38,674	45,098	18	106	124
Costa Rica	1	720	470	193	1	21,103	21,103	—	58	58
Denmark	0	1,207	—	1	—	2,128	14,304	33	6	39
Dominican Republic	1	1,644	380	241	1	28,244	36,280	22	77	99
Ecuador	1	2,309	1	539	0	32,643	32,643	—	89	89
Egypt	0	862	—	4	—	13,650	13,650	—	37	37
El Salvador	0	466	0	266	0	14,049	14,049	—	38	38
Finland	0	349	0	14	—	4,231	4,232	0	12	12
France	2	2,060	—	38	0	11,805	48,370	100	32	133
Germany	38	199	31	59	1	672	28,610	77	2	78
Ghana	0	44	—	5	—	1,036	1,036	—	3	3
Gibraltar	—	—	—	—	—	9,122	9,122	—	25	25
Greece	—	2,313	—	4	—	3,194	3,194	—	9	9
Guatemala	3	3,188	—	245	—	38,877	38,877	—	107	107
Honduras	1	2,143	296	136	0	25,617	25,617	—	70	70
Hong Kong	1	0	—	20	1	687	687	—	2	2
India	19	11,675	4	1,311	3	72,862	224,514	415	200	615
Indonesia	1	0	12	25	0	47,842	49,239	4	131	135
Ireland	0	1,147	—	4	1	1,670	14,672	36	5	40
Israel	0	1,018	—	298	0	2,893	5,927	8	8	16
Italy	7	6,952	0	12	1	8,678	50,530	115	24	138
Jamaica	0	0	0	80	1	4,775	4,775	—	13	13
Japan	8	19,495	9	162	46	181,548	184,298	8	497	505
Korea, South	3	416	7	85	4	76,405	203,785	349	209	558
Lebanon	—	365	—	7	—	880	880	—	2	2
Mexico	198	22,844	2,396	12,590	191	424,315	424,315	—	1,163	1,163
Montenegro	—	—	—	0	—	0	0	—	0	0
Morocco	—	5,163	—	0	—	19,586	19,586	—	54	54
Mozambique	—	1,061	—	1	—	1,062	1,062	—	3	3
Netherlands	77	4,538	17	125	2	50,619	162,726	307	139	446
New Zealand	0	435	431	9	1	880	880	—	2	2
Nicaragua	—	0	—	68	—	4,153	7,218	8	11	20
Nigeria	0	0	0	205	—	10,028	10,028	—	27	27
Norway	0	1,021	1	6	—	17,579	28,940	31	48	79
Pakistan	0	592	1	2	0	596	596	—	2	2
Panama	3	—	127	431	0	44,269	49,569	15	121	136
Peru	1	1	1	805	2	44,008	50,904	19	121	139
Philippines	1	1	0	18	2	1,317	1,317	—	4	4
Portugal	0	471	—	1	—	9,165	15,018	16	25	41
Puerto Rico	1	—	66	130	0	1,141	1,141	—	3	3
Romania	—	232	—	3	—	465	465	—	1	1
Saudi Arabia	0	271	67	51	0	3,337	3,337	—	9	9
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—	—	—
Singapore	0	276	1	243	0	34,994	88,115	146	96	241
South Africa	2	910	0	576	—	5,676	6,474	2	16	18
Spain	9	6,972	—	17	0	12,323	42,370	82	34	116
Switzerland	0	—	26	4	0	9,806	17,938	22	27	49
Taiwan	2	2	2	64	2	4,331	59,813	152	12	164
Thailand	1	1	3	48	3	80	14,083	38	0	39
Trinidad and Tobago	0	1	0	126	0	6,514	6,514	—	18	18
Turkey	0	10,379	0	312	1	26,499	26,499	—	73	73
United Arab Emirates	0	1,113	11	444	0	1,591	1,591	—	4	4
United Kingdom	7	1,065	1	148	4	33,430	117,931	232	92	323
Venezuela	0	—	—	76	—	123	123	—	0	0
Other	11	7,668	123	712	15	73,624	99,424	72	200	275
Total	1,811	185,450	7,382	37,141	403	2,063,193	3,150,831	2,980	5,653	8,632

-- = Not Applicable.

- = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, December 2021
(Thousand Barrels per Day)

Country of Origin	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reform-ulated	Conven-tional	Total	Reform-ulated	Conven-tional	Total
OPEC	906	-5	-	60	-	0	0	-	0	0
Algeria	-	-	-	13	-	-	-	-	-	-
Angola	2	1	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	9	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	223	-	-	-	-	-	-	-	-	-
Kuwait	12	0	-	0	-	0	0	-	-	-
Libya	55	-	-	1	-	-	-	-	-	-
Nigeria	110	-15	-	-	-	-	-	-	-	-
Saudi Arabia	472	-	-	47	-	-	-	-	-	-
United Arab Emirates	32	-	-	0	-	0	0	-	0	0
Venezuela	-	0	-	0	-	0	0	-	-	-
Non-OPEC	2,063	-2,125	16	-47	-	-887	-887	277	138	416
Argentina	61	-	-	-5	-	-	-	-	5	5
Aruba	-	-	-	-	-	-2	-2	-	-	-
Australia	-24	-19	-	0	-	-	-	0	-	0
Bahamas	-	-1	-	0	-	10	10	-	10	10
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-1	-51	-	0	-	-	-	5	-	5
Brazil	66	-3	-	-76	-	-17	-17	-	12	12
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	3,749	-86	16	-64	-	-18	-18	116	6	122
Chad	-	-	-	-	-	-	-	-	-	-
China	-206	-208	-	0	-	-	-	-	-	-
Colombia	194	-3	-	-32	-	-43	-43	-	-40	-40
Denmark	-22	-	-	-	-	-	-	-	-	-
Dominican Republic	-35	-61	-	0	-	-9	-9	-	-	-
Ecuador	203	-17	-	1	-	-19	-19	-	0	0
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-96	-79	-	-4	-	-	-	5	9	14
Germany	-90	0	-	0	-	-	-	-	1	1
Guatemala	9	-13	-	0	-	-54	-54	0	0	0
Honduras	-	-11	-	0	-	-20	-20	-	0	0
India	-672	-69	-	12	-	-	-	1	59	60
Indonesia	-	-86	-	0	-	-	-	-	-	-
Italy	-170	-9	-	0	-	11	11	10	10	21
Japan	-	-465	-	-58	-	0	0	0	10	10
Korea, South	-344	-148	-	-68	-	9	9	0	7	7
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	0	0	-	-	-
Malaysia	-	-	-	0	-	-	-	-	-	-
Mexico	492	-193	-	40	-	-608	-608	-	-42	-42
Netherlands	-378	-57	-	-31	-	-	-	47	18	65
Norway	62	-39	-	-	-	-	-	10	-	10
Oman	-	-	-	-	-	-	-	-	-	-
Panama	-	-10	-	0	-	-21	-21	-	-9	-9
Portugal	-	-22	-	-	-	-	-	-	-	-
Puerto Rico	-	0	-	0	-	0	0	-	0	0
Qatar	-	-	-	0	-	0	0	0	-	0
Russia	90	-	-	256	-	-	-	-	26	26
Spain	-114	-18	-	-	-	-	-	-	18	18
Sweden	-	-65	-	-4	-	3	3	-	20	20
Trinidad and Tobago	28	0	-	0	-	0	0	-	-	-
United Kingdom	-213	-76	-	0	-	-	-	83	10	93
Vietnam	-	-18	-	0	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	0	-	-2	-2	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	-526	-298	0	-14	-	-107	-107	0	8	8
Total	2,969	-2,131	16	14	-	-887	-887	277	138	416
Persian Gulf²	739	0	-	47	-	0	0	0	0	0

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, December 2021
(Thousand Barrels per Day) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	--	--	-7	-	-	-	12	0	0	-	12
Algeria	--	--	-	-	-	-	-	-	-	-	-
Angola	--	--	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	--	--	-	-	-	-	-	-	-	-	-
Equatorial Guinea	--	--	-	-	-	-	-	-	-	-	-
Gabon	--	--	-	-	-	-	-	-	-	-	-
Iran	--	--	-	-	-	-	-	-	-	-	-
Iraq	--	--	-	-	-	-	-	-	-	-	-
Kuwait	--	--	-	-	-	-	-	-	-	-	-
Libya	--	--	-	-	-	-	-	-	-	-	-
Nigeria	--	--	-7	-	-	-	0	-	-	-	0
Saudi Arabia	--	--	-	-	-	-	12	-	-	-	12
United Arab Emirates	--	--	-	-	-	-	-	-	0	-	0
Venezuela	--	--	-	-	-	-	0	0	-	-	0
Non-OPEC	--	--	-84	10	16	-	-829	-74	-153	-	-1,057
Argentina	--	--	0	-	-	-	0	-	-	-	0
Aruba	--	--	-	-	-	-	0	-	-	-	0
Australia	--	--	0	-	-	-	-	-	-	-	-
Bahamas	--	--	0	-	-	-	-2	-	-8	-	-10
Bahrain	--	--	-	-	-	-	-	-	-	-	-
Belgium	--	--	0	-	-	-	-16	-	-	-	-16
Brazil	--	--	-10	0	-	-	-162	-	-32	-	-194
Brunei	--	--	-	-	-	-	-	-	-	-	-
Cameroon	--	--	-	-	-	-	-	-	-	-	-
Canada	--	--	-28	9	-	-	164	-6	2	-	160
Chad	--	--	-	-	-	-	-	-	-	-	-
China	--	--	0	-	-	-	0	-	0	-	0
Colombia	--	--	-1	-	-	-	-34	-	-	-	-34
Denmark	--	--	-	-	-	-	-	-	-	-	-
Dominican Republic	--	--	0	-	-	-	-13	-6	-	-	-19
Ecuador	--	--	-	-	-	-	-10	-	-18	-	-28
Estonia	--	--	-	-	-	-	-	-	-	-	-
Finland	--	--	-	-	-	-	0	-	-	-	0
France	--	--	-	-	-	-	-	-	-	-	-
Germany	--	--	-2	0	-	-	0	-	-	-	0
Guatemala	--	--	0	-	-	-	-10	-14	-17	-	-42
Honduras	--	--	-	-	-	-	-11	-11	-4	-	-25
India	--	--	-12	-	-	-	-	-	-	-	-
Indonesia	--	--	0	-	-	-	-	-	-	-	-
Italy	--	--	-	3	-	-	-	-	-	-	-
Japan	--	--	-1	-	-	-	6	-	-	-	6
Korea, South	--	--	-11	2	-	-	26	-	-	-	26
Latvia	--	--	-	-	-	-	-	-	-	-	-
Lithuania	--	--	0	-	-	-	-	-	-	-	-
Malaysia	--	--	0	-	-	-	24	-	-	-	24
Mexico	--	--	-5	-	-	-	-352	-6	0	-	-358
Netherlands	--	--	-6	-	-	-	-18	-	-3	-	-22
Norway	--	--	-	-	-	-	-21	-	-	-	-21
Oman	--	--	-	-	-	-	26	-	-	-	26
Panama	--	--	-	0	-	-	-81	-10	-16	-	-108
Portugal	--	--	-	-	-	-	-	-	-	-	-
Puerto Rico	--	--	0	-	-	-	0	-	0	-	0
Qatar	--	--	-	-	-	-	6	-	-	-	6
Russia	--	--	0	-	-	-	11	-	-	-	11
Spain	--	--	-	1	-	-	-	-	-	-	-
Sweden	--	--	-1	-	-	-	-	-	-	-	-
Trinidad and Tobago	--	--	0	-	-	-	-16	-	-	-	-16
United Kingdom	--	--	-3	0	-	-	-10	-	-	-	-10
Vietnam	--	--	0	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	--	--	-	-	-	-	-31	-	-4	-	-34
Yemen	--	--	-	-	-	-	-	-	-	-	-
Other	--	--	-4	-5	16	-	-305	-21	-53	-	-379
Total	--	--	-91	10	16	-	-817	-75	-153	-	-1,045
Persian Gulf²	--	--	-	-	-	-	18	-	0	-	18

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, December 2021
(Thousand Barrels per Day) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
OPEC	0	-	-	41	-	27	-	-
Algeria	-	-	-	-	-	26	-	-
Angola	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-
Iraq	0	-	-	-	-	-	-	-
Kuwait	-	-	-	22	-	-	-	-
Libya	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	19	-	-	-	-
United Arab Emirates	0	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-
Non-OPEC	-24	1	-	-59	12	124	21	4
Argentina	-	-	-	-	-	-	2	0
Aruba	-	-	-	-3	-	0	-	-
Australia	-	-	-	-	-	-	-	-
Bahamas	-	-	-	0	-	13	-	-
Bahrain	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Brazil	-17	-	-	0	1	1	-	-
Brunei	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-
Canada	0	0	-	-6	9	12	3	2
Chad	-	-	-	-	-	-	-	-
China	-	-	-	-	-	0	-	-
Colombia	0	-	-	-	-	5	-	-
Denmark	-	-	-	-	-	-	-	-
Dominican Republic	-	-	-	-8	-	-6	-	-
Ecuador	0	-	-	0	-	5	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	2
Germany	-	-	-	-	-	10	-	-
Guatemala	-	-	-	-4	-	-	-	-
Honduras	-	-	-	-1	-	-	-	-
India	-	-	-	22	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Japan	-	-	-	-	1	-	1	-
Korea, South	-	-	-	46	1	-2	1	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-
Mexico	0	-	-	-66	-	82	5	-
Netherlands	-6	1	-	-	-	2	-	-
Norway	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-
Panama	0	-	-	-21	-	-6	-	-
Portugal	-	-	-	-	-	-	-	-
Puerto Rico	0	-	-	0	-	-	-	-
Qatar	-	-	-	-	-	-	0	-
Russia	-	-	-	8	-	12	4	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	0	0	-
Vietnam	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-
Other	-1	0	-	-26	0	-4	5	0
Total	-24	1	-	-18	12	151	21	4
Persian Gulf²	0	-	-	41	-	-	0	-

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, December 2021
(Thousand Barrels per Day) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products
OPEC	0	0	0	0	0	128	1,034
Algeria	—	—	—	—	—	39	39
Angola	—	—	—	0	—	1	2
Congo (Brazzaville)	—	—	—	—	—	—	0
Equatorial Guinea	—	—	—	0	—	9	9
Gabon	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—
Iraq	0	—	—	0	—	0	223
Kuwait	—	0	—	0	—	22	34
Libya	—	—	—	0	—	1	55
Nigeria	—	—	—	-4	—	-26	85
Saudi Arabia	0	—	—	0	0	77	549
United Arab Emirates	0	0	0	4	—	4	36
Venezuela	—	—	—	0	—	0	0
Non-OPEC	3	-491	48	-58	-1	-4,159	-2,096
Argentina	0	6	0	-2	—	7	68
Aruba	—	—	—	0	—	-5	-5
Australia	0	-5	0	0	—	-24	-48
Bahamas	—	—	0	0	0	23	23
Bahrain	—	—	—	3	—	3	3
Belgium	0	-5	—	-15	0	-82	-83
Brazil	0	-37	—	-9	0	-350	-284
Brunei	—	—	—	0	—	0	0
Cameroon	—	—	0	0	—	0	0
Canada	-1	-12	62	0	0	181	3,930
Chad	—	—	—	0	—	0	0
China	2	-48	0	0	0	-255	-461
Colombia	0	0	0	-3	0	-151	44
Denmark	—	-5	—	0	—	-5	-28
Dominican Republic	0	—	-2	-1	0	-106	-141
Ecuador	0	-13	0	-1	—	-73	131
Estonia	—	—	—	—	—	—	—
Finland	—	—	—	0	—	0	0
France	0	0	—	0	—	-67	-163
Germany	0	0	0	0	0	9	-81
Guatemala	0	-32	—	0	—	-146	-137
Honduras	0	-10	-1	0	0	-69	-69
India	0	-49	0	-6	0	-42	-714
Indonesia	0	—	0	2	—	-84	-84
Italy	1	-21	—	0	—	5	-165
Japan	1	-74	0	0	0	-579	-579
Korea, South	0	-9	0	9	0	-137	-481
Latvia	—	—	—	0	—	0	0
Lithuania	—	—	—	0	—	0	0
Malaysia	0	—	—	0	0	25	25
Mexico	-1	-56	-8	-30	-1	-1,240	-747
Netherlands	-1	-19	0	2	0	-71	-448
Norway	—	-4	—	0	—	-54	8
Oman	—	0	—	0	—	26	26
Panama	—	—	—	-1	—	-175	-175
Portugal	—	—	—	0	—	-22	-22
Puerto Rico	0	—	0	0	—	-1	-1
Qatar	—	-4	—	6	—	8	8
Russia	—	—	—	0	—	315	405
Spain	0	-4	—	0	—	-3	-118
Sweden	0	—	—	0	0	-48	-48
Trinidad and Tobago	—	0	—	0	0	-17	11
United Kingdom	1	-11	—	-1	—	-7	-220
Vietnam	0	-1	—	0	—	-19	-19
Virgin Islands, U.S.	—	—	0	0	—	-36	-36
Yemen	—	—	—	0	—	0	0
Other	1	-78	-3	-11	0	-893	-1,421
Total	3	-491	47	-58	-1	-4,032	-1,062
Persian Gulf²	0	-4	0	12	0	115	854

— = Not Applicable.

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

² Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-December 2021
(Thousand Barrels per Day)

Country of Origin	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	796	-16	-	54	-	-2	-2	3	31	34
Algeria	18	-	-	15	-	0	0	-	1	1
Angola	32	0	-	1	-	-	-	-	3	3
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	2	-	-	-	-	-	-	0	0
Gabon	-	-	-	-	-	-	-	-	0	0
Iran	3	-	-	-	-	-	-	-	-	-
Iraq	152	-	-	5	-	-	-	-	0	0
Kuwait	21	0	-	0	-	0	0	-	-	-
Libya	90	-	-	1	-	0	0	-	-	-
Nigeria	108	-18	-	0	-	-6	-6	-	7	7
Saudi Arabia	356	0	-	27	-	3	3	3	17	20
United Arab Emirates	17	0	-	5	-	0	0	-	3	3
Venezuela	-	0	-	0	-	0	0	0	0	0
Non-OPEC	2,334	-2,151	16	119	-	-712	-712	219	350	569
Argentina	28	0	-	-3	-	-1	-1	-	4	4
Aruba	-	0	-	0	-	-1	-1	0	0	0
Australia	-13	-13	-	0	-	0	0	0	0	0
Bahamas	-	-3	-	-2	-	-4	-4	0	2	2
Bahrain	-	-	-	0	-	0	0	-	-	-
Belgium	-3	-24	-	-5	-	3	3	8	10	18
Brazil	43	-49	-	-78	-	-47	-47	1	24	25
Brunei	25	-	-	-	-	-	-	-	-	-
Cameroon	4	0	-	-	-	0	0	-	-	-
Canada	3,445	-138	16	-45	-	-4	-4	102	8	109
Chad	-	-	-	-	-	-	-	-	-	-
China	-248	-250	-	0	-	0	0	-	0	0
Colombia	162	-1	-	-29	-	-35	-35	0	-8	-8
Denmark	-33	-	-	-1	-	0	0	0	0	1
Dominican Republic	-22	-37	-	0	-	-10	-10	-	-1	-1
Ecuador	148	-35	-	13	-	-18	-18	-	0	0
Estonia	-	-	-	0	-	0	0	-	0	0
Finland	0	-9	-	0	-	1	1	-	19	19
France	-100	-23	-	2	-	0	0	10	14	23
Germany	-77	-1	-	1	-	1	1	0	2	2
Guatemala	3	-10	-	0	-	-49	-49	0	0	0
Honduras	-	-15	-	0	-	-18	-18	-	0	0
India	-415	-152	-	0	-	4	4	0	61	61
Indonesia	-4	-127	-	0	-	-	-	-	-	-
Italy	-115	-4	-	2	-	8	8	3	28	32
Japan	-8	-398	-	-44	-	0	0	0	5	5
Korea, South	-349	-154	-	-41	-	13	13	0	16	16
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-2	-	-	-	-	1	1	-	3	3
Malaysia	-	0	-	1	-	0	0	-	1	1
Mexico	583	-183	0	33	-	-467	-467	0	-40	-40
Netherlands	-307	-54	-	-46	-	15	15	40	42	82
Norway	17	-37	-	0	-	2	2	12	6	17
Oman	-	-	-	0	-	0	0	-	0	0
Panama	-15	-3	-	0	-	-26	-26	0	-1	-1
Portugal	-16	-23	-	-1	-	2	2	5	21	26
Puerto Rico	-	-1	-	0	-	-1	-1	0	0	0
Qatar	-	-	-	0	-	0	0	0	-	0
Russia	199	0	-	354	-	14	14	3	48	50
Spain	-82	-11	-	0	-	2	2	0	24	24
Sweden	-21	-22	-	-1	-	1	1	1	14	14
Trinidad and Tobago	39	0	-	0	-	-3	-3	-	-	-
United Kingdom	-191	-48	-	-3	-	2	2	33	18	51
Vietnam	-1	-9	-	0	-	0	0	0	0	0
Virgin Islands, U.S.	-23	-3	-	6	-	-2	-2	-	5	5
Yemen	-	-	-	-	-	-	-	-	-	-
Other	-317	-314	0	6	-	-95	-95	1	25	29
Total	3,130	-2,167	16	173	-	-715	-715	222	381	603
Persian Gulf²	548	0	-	37	-	3	3	3	20	23

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-December 2021
(Thousand Barrels per Day) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	--	--	-4	0	-	-	30	0	0	-	30
Algeria	--	--	-	-	-	-	-	-	-	-	-
Angola	--	--	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	--	--	-	-	-	-	-	-	-	-	-
Equatorial Guinea	--	--	0	-	-	-	-	-	-	-	-
Gabon	--	--	-	-	-	-	0	-	-	-	0
Iran	--	--	-	-	-	-	-	-	-	-	-
Iraq	--	--	-	-	-	-	0	-	-	-	0
Kuwait	--	--	0	-	-	-	4	-	-	-	4
Libya	--	--	-	-	-	-	0	-	-	-	0
Nigeria	--	--	-3	0	-	-	9	-	-	-	9
Saudi Arabia	--	--	-1	-	-	-	14	-	-	-	14
United Arab Emirates	--	--	0	-	-	-	4	-	0	-	4
Venezuela	--	--	0	-	-	-	0	0	-	-	0
Non-OPEC	--	--	-73	1	26	0	-665	-71	-98	-	-834
Argentina	--	--	0	-	-	-	-9	-3	-3	-	-14
Aruba	--	--	0	-	-	-	0	-	0	-	0
Australia	--	--	0	0	-	-	0	-	-	-	0
Bahamas	--	--	0	-	-	-	-9	0	-9	-	-17
Bahrain	--	--	0	-	-	-	1	-	-	-	1
Belgium	--	--	0	0	-	-	10	-	-1	-	9
Brazil	--	--	-1	0	-	-	-127	-9	-6	-	-142
Brunei	--	--	-	-	-	-	-	-	-	-	-
Cameroon	--	--	-	-	-	-	-	-	-	-	-
Canada	--	--	-24	-1	-	0	126	-12	-3	-	111
Chad	--	--	-	-	-	-	-	-	-	-	-
China	--	--	-7	-	-	-	0	-	0	-	0
Colombia	--	--	-2	-	-	-	-8	0	0	-	-8
Denmark	--	--	-	-	-	-	-2	0	-	-	-2
Dominican Republic	--	--	0	-	-	-	-7	-2	-6	-	-15
Ecuador	--	--	0	-	-	-	-15	-6	-6	-	-27
Estonia	--	--	-	-	-	-	-	-	-	-	-
Finland	--	--	-1	-	-	-	1	-	-	-	1
France	--	--	0	-	-	-	0	-	-	-	0
Germany	--	--	0	2	-	-	0	-	-	-	0
Guatemala	--	--	0	-	-	-	-23	-3	-9	-	-35
Honduras	--	--	0	-	-	-	-25	-3	-1	-	-28
India	--	--	-10	-	-	-	15	0	0	-	15
Indonesia	--	--	0	0	-	-	-3	-	-	-	-3
Italy	--	--	0	0	-	-	1	-1	-	-	0
Japan	--	--	0	-	-	-	1	-	-	-	1
Korea, South	--	--	-10	2	-	-	3	4	-	-	8
Latvia	--	--	-	-	-	-	0	-	-	-	0
Lithuania	--	--	0	-	-	-	0	-	-	-	0
Malaysia	--	--	0	0	-	-	0	-	0	-	0
Mexico	--	--	-3	0	-	-	-284	-2	-2	-	-288
Netherlands	--	--	-3	-1	0	-	9	-2	-3	-	4
Norway	--	--	0	0	-	-	-5	-	-	-	-5
Oman	--	--	0	-	-	-	7	-	-	-	7
Panama	--	--	0	0	-	-	-56	-11	-4	-	-71
Portugal	--	--	-	-	-	-	1	-	-	-	1
Puerto Rico	--	--	0	-	-	-	0	0	0	-	0
Qatar	--	--	0	-	-	-	12	-	-	-	12
Russia	--	--	0	-	-	-	23	0	-	-	23
Spain	--	--	0	1	-	-	0	-	-1	-	-1
Sweden	--	--	-1	-	-	-	1	-	-	-	1
Trinidad and Tobago	--	--	0	-	-	-	-7	-3	-4	-	-14
United Kingdom	--	--	-3	0	-	-	-24	-	-2	-	-26
Vietnam	--	--	0	-	-	-	0	-	-	-	0
Virgin Islands, U.S.	--	--	0	-	-	-	-10	-3	0	-	-12
Yemen	--	--	-	-	-	-	-	-	-	-	-
Other	--	--	-8	-2	26	0	-262	-15	-38	-	-320
Total	--	--	-78	1	26	0	-634	-71	-98	-	-804
Persian Gulf²	--	--	-1	-	-	-	34	-	0	-	34

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-December 2021
(Thousand Barrels per Day) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
OPEC	0	-	-	23	1	-1	0	-
Algeria	-	-	-	3	-	3	-	-
Angola	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	0	-	-
Gabon	0	-	-	-	-	0	-	-
Iran	-	-	-	-	-	-	-	-
Iraq	0	-	-	0	-	-	-	-
Kuwait	-	-	-	6	-	2	-	-
Libya	-	-	-	0	-	0	-	-
Nigeria	-	-	-	0	-	-	0	-
Saudi Arabia	-	-	-	6	1	-6	-	-
United Arab Emirates	0	-	-	7	-	0	-	-
Venezuela	0	-	-	-	-	0	-	-
Non-OPEC	-5	1	-	28	10	92	15	3
Argentina	0	-	-	0	-	1	0	0
Aruba	0	-	-	-2	-	0	-	-
Australia	0	-	-	0	-	0	-	-
Bahamas	-	-	-	-2	-	5	-	-
Bahrain	-	-	-	-	-	1	-	-
Belgium	-	-	-	1	-	0	1	-
Brazil	-2	-	-	0	1	5	-	-
Brunei	-	-	-	1	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-
Canada	-1	0	-	-2	3	1	3	2
Chad	-	-	-	-	-	-	-	-
China	0	-	-	2	-	0	-	-
Colombia	0	-	-	0	-	4	-	-
Denmark	-	-	-	-	-	0	-	-
Dominican Republic	0	-	-	-4	-	-4	-	-
Ecuador	0	-	-	0	-	5	-	-
Estonia	-	0	-	-	-	1	-	-
Finland	-	-	-	-	-	0	0	-
France	-	-	-	1	-	0	0	1
Germany	-	-	-	-	-	2	0	-
Guatemala	0	-	-	-3	-	0	-	-
Honduras	0	-	-	-2	-	0	-	-
India	-	-	-	15	1	2	-	-
Indonesia	-	-	-	0	-	0	0	-
Italy	-	-	-	4	-	2	-	-
Japan	1	-	-	9	1	0	2	-
Korea, South	0	-	-	79	3	0	1	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Malaysia	0	-	-	0	-	-1	-	-
Mexico	-2	-	-	-43	0	59	4	-
Netherlands	-1	1	-	1	0	-2	0	-
Norway	-	-	-	-	-	0	-	-
Oman	-	-	-	1	-	-	-	-
Panama	0	-	-	-8	-	-9	-	-
Portugal	-	-	-	0	-	-	-	-
Puerto Rico	0	-	-	0	-	0	-	-
Qatar	0	-	-	0	-	0	0	-
Russia	-	-	-	1	-	27	1	-
Spain	-	-	-	-1	-	1	-	-
Sweden	-	-	-	-	-	0	-	-
Trinidad and Tobago	-	-	-	0	-	-	-	-
United Kingdom	0	-	-	-1	-	0	0	-
Vietnam	0	-	-	0	-	-	-	-
Virgin Islands, U.S.	0	-	-	1	-	3	0	-
Yemen	-	-	-	-	-	-	-	-
Other	0	0	-	-20	1	-11	3	0
Total	-5	1	-	51	11	92	15	3
Persian Gulf²	0	-	-	19	1	-4	0	-

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-December 2021
(Thousand Barrels per Day) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products
OPEC	0	-3	0	2	0	119	915
Algeria	—	—	0	0	—	22	39
Angola	—	—	0	0	—	4	36
Congo (Brazzaville)	—	—	—	—	—	—	1
Equatorial Guinea	—	0	—	0	—	2	2
Gabon	—	—	—	0	—	0	0
Iran	—	—	—	—	—	—	3
Iraq	0	—	—	0	—	5	157
Kuwait	0	0	—	0	—	12	33
Libya	—	—	—	0	—	1	91
Nigeria	0	0	0	-1	—	-10	98
Saudi Arabia	0	0	0	0	0	64	421
United Arab Emirates	0	-3	0	3	0	19	35
Venezuela	0	—	—	0	—	0	0
Non-OPEC	1	-495	35	-58	-1	-3,413	-1,079
Argentina	0	3	-1	-1	0	-12	16
Aruba	0	—	0	0	—	-4	-4
Australia	0	-7	0	0	0	-21	-33
Bahamas	—	—	0	0	0	-22	-22
Bahrain	0	—	0	2	—	4	4
Belgium	0	-5	0	-14	0	-16	-19
Brazil	0	-48	0	-12	0	-350	-306
Brunei	—	—	—	0	—	1	26
Cameroon	—	0	0	0	—	0	4
Canada	-1	-17	47	1	0	60	3,504
Chad	—	—	—	0	—	0	0
China	1	-88	0	-1	0	-342	-590
Colombia	0	0	1	-3	0	-82	80
Denmark	0	-3	—	0	—	-5	-38
Dominican Republic	0	-5	-1	-1	0	-77	-99
Ecuador	0	-6	0	-1	0	-69	79
Estonia	—	—	—	0	0	1	1
Finland	0	-1	0	0	—	9	9
France	0	-6	—	0	0	-2	-102
Germany	0	-1	0	0	0	6	-71
Guatemala	0	-9	—	-1	—	-107	-103
Honduras	0	-6	-1	0	0	-70	-70
India	0	-32	0	-4	0	-100	-516
Indonesia	0	0	0	3	0	-127	-131
Italy	0	-19	0	0	0	24	-90
Japan	0	-53	0	0	0	-477	-485
Korea, South	0	-1	0	9	0	-75	-424
Latvia	0	—	—	0	0	0	0
Lithuania	0	0	—	0	0	4	2
Malaysia	0	-1	0	0	0	0	0
Mexico	-1	-63	-7	-34	-1	-1,034	-452
Netherlands	0	-12	0	3	0	-12	-319
Norway	0	-3	0	0	—	-25	-8
Oman	—	-1	0	0	—	7	7
Panama	0	—	0	-1	0	-120	-135
Portugal	0	-1	—	0	—	4	-12
Puerto Rico	0	—	0	0	0	-3	-3
Qatar	0	-2	—	10	—	20	20
Russia	0	0	0	0	—	473	672
Spain	0	-19	1	0	0	-4	-87
Sweden	0	0	—	0	0	-7	-28
Trinidad and Tobago	0	0	0	0	0	-18	22
United Kingdom	0	-3	0	0	0	-29	-219
Vietnam	0	0	0	0	0	-9	-11
Virgin Islands, U.S.	—	—	0	0	0	-1	-24
Yemen	—	—	—	0	—	0	0
Other	2	-86	-4	-13	0	-806	-1,124
Total	1	-498	35	-56	-1	-3,294	-164
Persian Gulf²	0	-4	0	16	0	124	672

— = Not Applicable.

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

² Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, December 2021
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Crude Oil	7,654	117,639	818,735	24,326	46,748	1,015,102
Refinery	5,872	12,926	40,941	2,536	20,561	82,836
Tank Farms and Pipelines (Includes Cushing, OK)	1,782	104,713	184,112	21,790	22,639	335,036
Cushing, Oklahoma	--	37,697	--	--	--	37,697
Leases	--	--	--	--	--	--
Strategic Petroleum Reserve ¹	--	--	593,682	--	--	593,682
Alaskan In Transit	--	--	--	--	3,548	3,548
Total Stocks, All Oils (excluding Crude Oil)²	150,238	174,727	334,812	25,669	86,963	772,409
Refinery	12,065	47,590	112,238	10,738	46,913	229,544
Bulk Terminal	108,716	88,974	165,223	8,098	35,044	406,055
Pipeline	29,209	36,682	56,223	6,668	4,629	133,411
Natural Gas Processing Plant	248	1,481	1,128	165	377	3,399
Natural Gas Liquids	9,955	49,351	116,318	7,102	3,546	186,272
Refinery	417	3,728	5,383	332	1,346	11,206
Bulk Terminal	7,273	26,941	86,482	2,080	1,823	124,599
Pipeline	2,017	17,201	23,325	4,525	--	47,068
Natural Gas Processing Plant	248	1,481	1,128	165	377	3,399
Ethane	684	6,933	50,905	1,299	--	59,821
Refinery	--	--	12	--	--	12
Bulk Terminal	168	3,189	42,256	--	--	45,613
Pipeline	516	3,582	8,572	1,293	--	13,963
Natural Gas Processing Plant	--	162	65	6	--	233
Propane	7,521	21,438	28,615	2,833	1,670	62,077
Refinery	86	1,091	855	47	103	2,182
Bulk Terminal	6,064	15,972	20,893	1,084	1,431	45,444
Pipeline	1,249	3,711	6,740	1,639	--	13,339
Natural Gas Processing Plant	122	664	127	63	136	1,112
Normal Butane	1,353	8,853	20,479	1,819	1,513	34,017
Refinery	245	1,829	3,186	164	948	6,372
Bulk Terminal	895	5,534	14,418	992	390	22,229
Pipeline	165	1,324	2,471	632	--	4,592
Natural Gas Processing Plant	48	166	404	31	175	824
Isobutane	136	2,352	6,414	438	334	9,674
Refinery	86	526	844	97	292	1,845
Bulk Terminal	--	796	4,112	--	--	4,908
Pipeline	44	891	1,354	320	--	2,609
Natural Gas Processing Plant	6	139	104	21	42	312
Natural Gasoline	261	9,775	9,905	713	29	20,683
Refinery	--	282	486	24	3	795
Bulk Terminal	146	1,450	4,803	4	2	6,405
Pipeline	43	7,693	4,188	641	--	12,565
Natural Gas Processing Plant	72	350	428	44	24	918
Refinery Olefins	259	560	1,143	76	50	2,088
Refinery	259	560	1,143	76	50	2,088
Bulk Terminal	--	--	--	--	--	--
Pipeline	--	--	--	--	--	--
Natural Gas Processing Plant	--	--	--	--	--	--
Ethylene	--	--	0	--	--	0
Refinery	--	--	0	--	--	0
Bulk Terminal	--	--	--	--	--	--
Pipeline	--	--	--	--	--	--
Natural Gas Processing Plant	--	--	--	--	--	--
Propylene	146	453	779	3	16	1,397
Refinery	146	453	779	3	16	1,397
Bulk Terminal	--	--	--	--	--	--
Pipeline	--	--	--	--	--	--
Natural Gas Processing Plant	--	--	--	--	--	--
Normal Butylene	84	107	348	73	34	646
Refinery	84	107	348	73	34	646
Bulk Terminal	--	--	--	--	--	--
Pipeline	--	--	--	--	--	--
Natural Gas Processing Plant	--	--	--	--	--	--
Isobutylene	29	0	16	0	0	45
Refinery	29	0	16	0	0	45
Bulk Terminal	--	--	--	--	--	--
Pipeline	--	--	--	--	--	--
Natural Gas Processing Plant	--	--	--	--	--	--
Other Hydrocarbons	--	16	--	--	--	16
Refinery	--	16	--	--	--	16
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--
Refinery	--	--	--	--	--	--
Bulk Terminal	--	--	--	--	--	--
Pipeline	--	--	--	--	--	--

See footnotes at end of table.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, December 2021
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
MTBE	--	--	--	--	--	--
Refinery	--	--	--	--	--	--
Bulk Terminal ³	--	--	--	--	--	--
Pipeline	--	--	--	--	--	--
Other Oxygenates⁴	--	--	--	--	--	--
Refinery	--	--	--	--	--	--
Bulk Terminal	--	--	--	--	--	--
Pipeline	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)²	7,068	10,604	5,546	420	4,992	28,630
Refinery	232	148	307	137	760	1,584
Bulk Terminal	6,807	10,456	5,239	278	4,232	27,012
Pipeline	29	--	--	5	--	34
Fuel Ethanol	6,027	9,371	3,876	379	2,357	22,011
Refinery	221	107	181	126	155	790
Bulk Terminal	5,777	9,264	3,695	248	2,202	21,187
Pipeline	29	--	--	5	--	34
Renewable Diesel Fuel⁵	1,041	1,196	1,652	41	2,607	6,537
Refinery	11	41	126	11	605	794
Bulk Terminal	1,030	1,155	1,526	30	2,002	5,743
Pipeline	--	--	--	--	--	--
Other Renewable Fuels	--	37	18	--	28	83
Refinery	--	--	--	--	--	--
Bulk Terminal	--	37	18	--	28	83
Pipeline	--	--	--	--	--	--
Unfinished Oils	3,572	13,270	41,706	2,770	18,933	80,251
Naphthas and Lighter	749	3,628	10,199	610	3,102	18,288
Refinery	730	3,601	9,253	610	2,841	17,035
Bulk Terminal	19	27	946	--	261	1,253
Kerosene and Light Gas Oils	346	2,740	7,917	556	3,423	14,982
Refinery	337	2,740	6,140	556	3,325	13,098
Bulk Terminal	9	--	1,777	--	98	1,884
Heavy Gas Oils	1,790	4,784	18,042	1,227	9,400	35,243
Refinery	1,548	4,708	16,818	1,227	8,244	32,545
Bulk Terminal	242	76	1,224	--	1,156	2,698
Residuum	687	2,118	5,548	377	3,008	11,738
Refinery	687	2,118	5,290	377	3,008	11,480
Bulk Terminal	--	--	258	--	--	258
Motor Gasoline Blending Components²	58,907	46,477	74,970	6,565	27,575	214,494
Refinery	3,283	12,936	27,133	3,273	13,112	59,737
Bulk Terminal	43,858	25,164	30,700	2,267	12,129	114,118
Pipeline	11,766	8,377	17,137	1,025	2,334	40,639
Reformulated - RBOB	19,383	4,650	9,493	--	13,831	47,357
Refinery	1,304	919	1,536	--	4,842	8,601
Bulk Terminal	14,027	3,316	4,764	--	7,485	29,592
Pipeline	4,052	415	3,193	--	1,504	9,164
Conventional	39,524	41,827	65,477	6,565	13,744	167,137
Refinery	1,979	12,017	25,597	3,273	8,270	51,136
Bulk Terminal	29,831	21,848	25,936	2,267	4,644	84,526
Pipeline	7,714	7,962	13,944	1,025	830	31,475
CBOB	27,991	34,811	37,016	5,157	6,996	111,971
Refinery	302	6,021	10,836	1,868	2,376	21,403
Bulk Terminal	20,188	20,876	12,248	2,264	3,790	59,366
Pipeline	7,501	7,914	13,932	1,025	830	31,202
GTAB	1,230	--	--	--	--	1,230
Refinery	--	--	--	--	--	--
Bulk Terminal	1,230	--	--	--	--	1,230
Pipeline	--	--	--	--	--	--
Other	10,303	7,016	28,461	1,408	6,748	53,936
Refinery	1,677	5,996	14,761	1,405	5,894	29,733
Bulk Terminal	8,413	972	13,688	3	854	23,930
Pipeline	213	48	12	--	--	273
Aviation Gasoline Blending Components	--	--	25	--	--	25
Refinery	--	--	25	--	--	25
Bulk Terminal	--	--	--	--	--	--
Finished Motor Gasoline	2,916	4,402	6,769	1,582	2,074	17,743
Refinery	36	895	3,058	877	806	5,672
Bulk Terminal	722	1,186	2,940	536	1,196	6,580
Pipeline	2,158	2,321	771	169	72	5,491
Reformulated	6	--	--	--	16	22
Refinery	--	--	--	--	16	16
Bulk Terminal	6	--	--	--	--	6
Pipeline	--	--	--	--	--	--
Reformulated (Blended with Fuel Ethanol)	6	--	--	--	16	22
Refinery	--	--	--	--	16	16
Bulk Terminal	6	--	--	--	--	6
Pipeline	--	--	--	--	--	--

See footnotes at end of table.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, December 2021
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Reformulated (Other)	—	—	—	—	—	—
Refinery	—	—	—	—	—	—
Bulk Terminal	—	—	—	—	—	—
Pipeline	—	—	—	—	—	—
Conventional	2,910	4,402	6,769	1,582	2,058	17,721
Refinery	36	895	3,058	877	790	5,656
Bulk Terminal	716	1,186	2,940	536	1,196	6,574
Pipeline	2,158	2,321	771	169	72	5,491
Conventional (Blended with Fuel Ethanol)	—	149	—	65	28	242
Refinery	—	—	—	64	—	64
Bulk Terminal	—	149	—	1	28	178
Pipeline	—	—	—	—	—	—
Ed55 and Lower	—	149	—	65	—	214
Refinery	—	—	—	64	—	64
Bulk Terminal	—	149	—	1	—	150
Pipeline	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—
Refinery	—	—	—	—	—	—
Bulk Terminal	—	—	—	—	28	28
Pipeline	—	—	—	—	—	—
Conventional (Other)	2,910	4,253	6,769	1,517	2,030	17,479
Refinery	36	895	3,058	813	790	5,592
Bulk Terminal	716	1,037	2,940	535	1,168	6,396
Pipeline	2,158	2,321	771	169	72	5,491
Finished Aviation Gasoline	247	172	507	9	316	1,251
Refinery	—	73	373	9	211	666
Bulk Terminal	247	99	134	—	105	585
Pipeline	—	—	—	—	—	—
Kerosene-Type Jet Fuel	9,157	6,821	11,062	692	8,066	35,798
Refinery	644	1,935	4,817	324	3,392	11,112
Bulk Terminal	4,568	2,890	3,203	235	4,032	14,928
Pipeline	3,945	1,996	3,042	133	642	9,758
Kerosene	1,758	137	314	1	35	2,245
Refinery	63	93	46	1	3	206
Bulk Terminal	1,663	44	147	—	32	1,886
Pipeline	32	—	121	—	—	153
Distillate Fuel Oil²	44,582	29,173	39,235	4,526	12,413	129,928
Refinery	1,712	6,627	13,750	1,859	4,624	28,572
Bulk Terminal	33,608	15,759	13,658	1,856	6,208	71,088
Pipeline	9,262	6,787	11,827	811	1,581	30,268
15 ppm sulfur and Under	41,142	28,582	34,549	4,297	11,610	120,179
Refinery	1,453	6,245	11,827	1,659	4,125	25,309
Bulk Terminal	30,866	15,684	11,239	1,827	5,948	65,563
Pipeline	8,823	6,653	11,483	811	1,537	29,307
Greater than 15 ppm to 500 ppm sulfur	1,035	236	1,084	163	267	2,785
Refinery	76	50	277	134	245	782
Bulk Terminal	956	59	672	29	1	1,717
Pipeline	3	127	135	—	21	286
Greater than 500 ppm sulfur	2,405	355	3,602	66	536	6,964
Refinery	183	332	1,646	66	254	2,481
Bulk Terminal	1,786	16	1,747	—	259	3,808
Pipeline	436	7	209	—	23	675
Residual Fuel Oil	4,541	957	15,329	212	4,350	25,389
Refinery	282	839	3,356	212	2,070	6,759
Bulk Terminal	4,259	118	11,973	—	2,280	18,630
Pipeline	—	—	—	—	—	—
Less than 0.31% Sulfur	307	51	1,071	22	1,089	2,540
Refinery	19	50	100	22	29	220
Bulk Terminal	288	1	971	—	1,060	2,320
0.31% to 1.00% Sulfur	1,293	196	4,384	4	435	6,312
Refinery	90	193	553	4	241	1,081
Bulk Terminal	1,203	3	3,831	—	194	5,231
Greater than 1.00% Percent Sulfur	2,941	710	9,874	186	2,826	16,537
Refinery	173	596	2,703	186	1,800	5,458
Bulk Terminal	2,768	114	7,171	—	1,026	11,079
Petrochemical Feedstocks	—	532	2,006	—	2	2,540
Refinery	—	532	2,006	—	2	2,540
Naphtha for Petrochemical Feedstock Use	—	412	1,468	—	2	1,882
Other Oils for Petrochemical Feedstock Use	—	120	538	—	—	658
Special Naphthas	28	152	850	—	18	1,048
Refinery	14	77	842	—	18	951
Bulk Terminal	14	75	8	—	—	97
Lubricants	1,495	721	9,669	—	949	12,834
Refinery	963	247	6,122	—	765	8,097
Bulk Terminal	532	474	3,547	—	184	4,737
Waxes	235	40	274	—	—	549
Refinery	235	40	274	—	—	549
Petroleum Coke	—	1,502	3,846	137	1,335	6,820
Refinery	—	1,502	3,846	137	1,335	6,820
Asphalt and Road Oil	5,451	9,717	4,918	1,559	2,222	23,867
Refinery	558	4,051	1,930	714	914	8,167
Bulk Terminal	4,893	5,666	2,988	845	1,308	15,700

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, December 2021
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Miscellaneous Products	67	124	326	17	87	621
Refinery	65	124	326	17	87	619
Bulk Terminal	2	—	—	—	—	2
Pipeline	—	—	—	—	—	—
Total Stocks, All Oils	157,892	292,366	1,153,547	49,995	133,711	1,787,511

— = Not Applicable.

— = No Data Reported.

Lease stocks were excluded from crude oil stocks beginning with data for July 2016 (see explanatory notes).

¹ Crude oil stocks in the Strategic Petroleum Reserve include non-U.S. stocks held under foreign or commercial storage agreements.

² Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix

D. Includes stocks held at biofuel production facilities.

³ Includes stocks held by merchant producers.

⁴ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

⁵ Renewable diesel fuel includes biodiesel and other renewable diesel.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene."

Table 56. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, December 2021
(Thousand Barrels)

Commodity	Motor Gasoline			Motor Gasoline Blending Components ¹			Kerosene
	Reformulated	Conventional	Total	Reformulated	Conventional	Total	
PAD District 1	6	752	758	15,331	31,810	47,141	1,726
Connecticut	—	—	—	1,286	22	1,308	93
Delaware	—	—	—	744	309	1,053	46
District of Columbia	—	—	—	—	—	—	—
Florida	—	355	355	—	6,335	6,335	—
Georgia	—	134	134	—	2,834	2,834	—
Maine	—	—	—	314	305	619	124
Maryland	—	—	—	1,142	98	1,240	92
Massachusetts	5	—	5	1,781	8	1,789	37
New Hampshire	—	—	—	—	—	—	—
New Jersey	—	35	35	5,823	10,129	15,952	437
New York	1	—	1	838	1,788	2,626	559
North Carolina	—	74	74	—	2,983	2,983	138
Pennsylvania	—	—	—	655	3,949	4,604	130
Rhode Island	—	—	—	1,072	18	1,090	—
South Carolina	—	89	89	—	1,586	1,586	21
Vermont	—	—	—	—	26	26	5
Virginia	—	29	29	1,676	1,250	2,926	44
West Virginia	—	36	36	—	170	170	—
PAD District 2	—	2,081	2,081	4,235	33,865	38,100	137
Illinois	—	30	30	2,334	4,427	6,761	76
Indiana	—	78	78	793	4,011	4,804	1
Iowa	—	44	44	—	2,336	2,336	—
Kansas	—	206	206	—	3,886	3,886	17
Kentucky	—	89	89	223	1,306	1,529	—
Michigan	—	10	10	112	2,805	2,917	—
Minnesota	—	318	318	0	2,307	2,307	—
Missouri	—	115	115	289	778	1,067	—
Nebraska	—	51	51	—	745	745	—
North Dakota	—	73	73	—	859	859	—
Ohio	—	592	592	—	3,870	3,870	21
Oklahoma	—	247	247	—	3,158	3,158	—
South Dakota	—	52	52	—	321	321	—
Tennessee	—	84	84	—	1,968	1,968	—
Wisconsin	—	92	92	483	1,088	1,571	22
PAD District 3	—	5,998	5,998	6,300	51,533	57,833	193
Alabama	—	88	88	29	1,317	1,346	3
Arkansas	—	142	142	—	1,090	1,090	—
Louisiana	—	731	731	138	12,801	12,939	9
Mississippi	—	729	729	8	1,948	1,956	—
New Mexico	—	24	24	6	525	531	—
Texas	—	4,284	4,284	6,119	33,852	39,971	181
PAD District 4	—	1,413	1,413	—	5,540	5,540	1
Colorado	—	335	335	—	1,314	1,314	—
Idaho	—	43	43	—	396	396	—
Montana	—	396	396	—	1,471	1,471	—
Utah	—	131	131	—	1,421	1,421	1
Wyoming	—	508	508	—	938	938	—
PAD District 5	16	1,986	2,002	12,327	12,914	25,241	35
Alaska	—	301	301	—	459	459	32
Arizona	—	76	76	820	263	1,083	—
California	16	300	316	11,281	6,607	17,888	3
Hawaii	—	413	413	—	644	644	—
Nevada	—	162	162	11	344	355	—
Oregon	—	80	80	—	1,214	1,214	—
Washington	—	654	654	215	3,383	3,598	—
U.S. Total	22	12,230	12,252	38,193	135,662	173,855	2,092

See footnotes at end of table.

Table 56. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, December 2021
(Thousand Barrels) — Continued

Commodity	Distillate Fuel Oil ¹				Residual Fuel Oil	Propane
	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	Greater than 500 ppm	Total		
PAD District 1	32,319	1,032	1,969	35,320	4,541	6,272
Connecticut	2,666	—	—	2,666	28	—
Delaware	766	39	61	866	134	8
District of Columbia	—	—	—	—	—	—
Florida	2,497	161	—	2,658	682	263
Georgia	1,737	—	—	1,737	172	17
Maine	1,464	3	6	1,473	104	—
Maryland	1,981	—	—	1,981	129	—
Massachusetts	1,390	38	16	1,444	184	—
New Hampshire	715	—	—	715	28	385
New Jersey	7,008	517	1,318	8,843	2,463	68
New York	3,799	—	99	3,898	219	1,827
North Carolina	1,528	—	4	1,532	23	445
Pennsylvania	3,404	—	122	3,526	243	2,241
Rhode Island	1,100	—	—	1,100	—	—
South Carolina	820	—	—	820	24	622
Vermont	37	—	—	37	—	—
Virginia	1,260	240	343	1,843	108	5
West Virginia	147	34	—	181	—	79
PAD District 2	21,929	109	348	22,386	957	17,727
Illinois	3,266	—	2	3,268	413	1,041
Indiana	2,547	0	110	2,657	57	352
Iowa	2,056	1	—	2,057	1	386
Kansas	2,137	—	—	2,137	39	10,264
Kentucky	854	18	—	872	—	313
Michigan	1,367	19	—	1,386	83	4,033
Minnesota	1,852	—	69	1,921	138	273
Missouri	650	13	2	665	—	218
Nebraska	767	—	—	767	—	327
North Dakota	888	1	—	889	34	36
Ohio	1,686	8	95	1,789	76	380
Oklahoma	1,574	49	70	1,693	56	54
South Dakota	467	—	—	467	—	7
Tennessee	871	—	—	871	44	2
Wisconsin	946	—	—	946	16	41
PAD District 3	23,066	949	3,393	27,408	15,329	21,875
Alabama	935	4	48	987	332	18
Arkansas	736	—	—	736	—	51
Louisiana	4,570	525	865	5,960	7,922	875
Mississippi	758	207	52	1,017	260	1,824
New Mexico	356	—	—	356	85	3
Texas	15,711	213	2,428	18,352	6,730	19,104
PAD District 4	3,486	163	66	3,715	212	1,194
Colorado	796	—	—	796	3	18
Idaho	257	—	—	257	—	—
Montana	1,122	101	—	1,223	78	26
Utah	608	14	66	688	46	1,096
Wyoming	703	48	—	751	85	54
PAD District 5	10,073	246	513	10,832	4,350	1,670
Alaska	1,020	—	56	1,076	189	5
Arizona	683	—	—	683	—	1,078
California	5,188	245	241	5,674	2,817	401
Hawaii	292	1	213	506	560	87
Nevada	473	—	3	476	—	—
Oregon	606	—	—	606	51	—
Washington	1,811	—	—	1,811	733	99
U.S. Total	90,872	2,499	6,289	99,660	25,389	48,738

— = No Data Reported.

¹ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D. Includes stocks held at biofuel production facilities.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene."

Table 57. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, December 2021
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	222	31	0	1,693	53,158	8,386	3,235	1,047	18,727
Petroleum Products	16,246	44	0	22,253	49,253	13,936	5,633	109,921	18,480
Natural Gas Liquids	7,039	44	0	7,089	34,443	10,123	1,033	2,111	11,501
Ethane	5,111	0	—	0	16,327	3,242	—	0	1,412
Propane	991	7	0	5,247	11,110	3,635	206	2,069	1,821
Normal Butane	231	0	0	1,697	2,962	1,491	768	36	679
Isobutane	421	37	0	145	1,271	534	59	6	1,342
Natural Gasoline	285	0	—	0	2,773	1,221	—	0	6,247
Refinery Olefins	0	0	—	401	727	—	—	0	0
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	0	0	—	401	727	—	—	0	0
Normal Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	0	0	—	—	1,167	—	—	—	100
Motor Gasoline Blending Components	5,898	0	0	1,230	1,974	1,649	0	59,401	2,916
Reformulated - RBOB	0	0	0	0	243	—	0	7,416	483
Conventional	5,898	0	0	1,230	1,731	1,649	0	51,985	2,433
CBOB	5,898	0	0	1,230	1,430	1,649	0	51,506	2,426
GTAB	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	301	—	—	479	7
Renewable Fuels	48	0	0	9,976	7,352	428	4,421	189	0
Fuel Ethanol	0	0	0	9,718	6,915	402	4,022	186	0
Renewable Diesel Fuel ²	48	0	0	259	437	26	399	3	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	70	0	0	1,196	350	107	0	4,821	248
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	70	0	0	1,196	350	107	0	4,821	248
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	70	0	0	1,196	350	107	0	4,821	248
Finished Aviation Gasoline	0	0	—	0	0	—	—	45	10
Kerosene-Type Jet Fuel	367	0	0	64	0	710	0	12,849	1,344
Kerosene	—	0	—	0	0	—	—	160	—
Distillate Fuel Oil	2,824	0	0	1,259	1,044	870	0	29,350	1,903
15 ppm sulfur and under	2,824	0	0	1,259	1,044	870	0	28,140	1,795
Greater than 15 ppm to 500 ppm sulfur	0	0	—	—	0	—	—	—	108
Greater than 500 ppm sulfur	—	0	—	0	0	—	—	1,210	—
Residual Fuel Oil	0	0	—	0	936	—	—	27	0
Petrochemical Feedstocks	0	0	—	—	83	—	—	—	0
Naphtha for Petrochemical Feedstock Use	0	0	—	—	83	—	—	—	0
Other Oils for Petrochemical Feedstock Use	—	—	—	—	—	—	—	—	—
Special Naphthas	0	0	—	—	0	—	—	—	20
Lubricants	0	0	—	0	0	—	—	503	172
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	0	0	360	716	13	7	60	16
Asphalt and Road Oil	0	0	0	678	461	36	172	406	241
Miscellaneous Products	0	0	—	—	0	—	—	—	10
Total	16,468	75	0	23,947	102,411	22,322	8,869	110,968	37,207

See footnotes at end of table.

Table 57. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, December 2021
(Thousand Barrels) — Continued

Commodity	From 3 to		From 4 to				From 5 to		
	4	5	1	2	3	5	1	3	4
Crude Oil	0	53	0	26,627	1,138	0	0	0	0
Petroleum Products	0	5,161	0	21,887	4,810	2,679	0	36	28
Natural Gas Liquids	0	77	0	20,612	4,621	456	0	0	0
Ethane	0	—	0	6,683	1,966	—	0	0	0
Propane	0	0	0	7,303	1,253	85	0	0	0
Normal Butane	0	54	0	2,953	382	305	0	0	0
Isobutane	0	23	0	1,172	426	66	0	0	0
Natural Gasoline	0	—	0	2,501	594	—	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	—
Normal Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	—	—	0	0	—	—	0	—
Motor Gasoline Blending Components	0	3,325	0	176	0	1,336	0	0	0
Reformulated - RBOB	—	1,866	0	0	0	0	0	0	—
Conventional	0	1,459	0	176	0	1,336	0	0	0
CBOB	0	1,459	0	176	0	1,336	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	—
Renewable Fuels	0	440	0	0	0	62	0	0	3
Fuel Ethanol	0	159	0	0	0	62	0	0	0
Renewable Diesel Fuel ²	0	281	0	0	0	0	0	0	3
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	497	0	71	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	497	0	71	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	497	0	71	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	—
Kerosene-Type Jet Fuel	0	291	0	12	0	16	0	0	0
Kerosene	—	—	0	—	0	—	0	0	—
Distillate Fuel Oil	0	971	0	485	0	440	0	0	0
15 ppm sulfur and under	0	971	0	485	0	440	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	—	0	0	—	—	0	—
Greater than 500 ppm sulfur	—	—	0	—	0	—	0	0	—
Residual Fuel Oil	—	—	0	0	0	—	0	0	—
Petrochemical Feedstocks	—	—	—	0	0	—	—	0	—
Naphtha for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	—
Other Oils for Petrochemical Feedstock Use	—	—	—	—	—	—	—	—	—
Special Naphthas	—	—	—	0	0	—	—	0	—
Lubricants	—	—	0	0	0	—	0	0	—
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	0	0	50	34	78	0	36	10
Asphalt and Road Oil	0	57	0	55	155	220	0	0	15
Miscellaneous Products	—	—	—	0	0	—	—	0	—
Total	0	5,215	0	48,514	5,948	2,679	0	36	28

— = No Data Reported.

¹ Movements of crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil include movements by rail. Movements of other products are by pipeline, tanker and barge only.

² Renewable diesel fuel includes biodiesel and other renewable diesel.

Sources: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail net movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 58. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, December 2021
(Thousand Barrels)

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
Crude Oil	117	31	168	51,875	8,386	129	18,727	0	-
Petroleum Products	15,824	0	8,084	36,397	13,459	85,113	16,930	0	4,587
Natural Gas Liquids	6,807	0	5,127	33,758	10,123	1,878	10,901	0	-
Ethane	5,111	0	0	16,327	3,242	0	1,412	0	-
Propane	980	0	3,887	10,481	3,635	1,878	1,712	0	-
Normal Butane	128	0	1,240	2,950	1,491	0	411	0	-
Isobutane	303	0	0	1,227	534	0	1,119	0	-
Natural Gasoline	285	0	0	2,773	1,221	0	6,247	0	-
Motor Gasoline Blending Components	5,898	0	748	1,619	1,649	45,031	2,909	0	3,325
Reformulated - RBOB	0	0	0	243	-	7,416	483	-	1,866
Conventional	5,898	0	748	1,376	1,649	37,615	2,426	0	1,459
CBOB	5,898	0	748	1,376	1,649	37,136	2,426	0	1,459
GTAB	-	-	-	-	-	-	-	-	-
Other	-	0	0	0	-	479	-	-	-
Renewable Fuels	-	-	-	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	70	0	1,123	0	107	3,248	221	0	0
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	70	0	1,123	0	107	3,248	221	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	70	0	1,123	0	107	3,248	221	0	0
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	342	0	64	0	710	9,256	1,168	0	291
Kerosene	-	0	0	0	-	160	-	-	-
Distillate Fuel Oil	2,707	0	1,022	1,020	870	25,540	1,731	0	971
15 ppm sulfur and under	2,707	0	1,022	1,020	870	24,432	1,623	0	971
Greater than 15 ppm to 500 ppm sulfur	0	0	-	0	-	-	108	-	-
Greater than 500 ppm sulfur	-	0	0	0	-	1,108	-	-	-
Residual Fuel Oil	-	-	-	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total	15,941	31	8,252	88,272	21,845	85,242	35,657	0	4,587

See footnotes at end of table.

Table 58. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, December 2021
(Thousand Barrels) — Continued

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
Crude Oil	0	26,627	248	—	0	0
Petroleum Products	0	21,782	4,621	1,863	0	0
Natural Gas Liquids	0	20,612	4,621	—	0	0
Ethane	0	6,683	1,966	—	0	0
Propane	0	7,303	1,253	—	0	0
Normal Butane	0	2,953	382	—	0	0
Isobutane	0	1,172	426	—	0	0
Natural Gasoline	0	2,501	594	—	0	0
Motor Gasoline Blending Components	0	176	0	1,336	0	0
Reformulated - RBOB	0	0	0	0	0	—
Conventional	0	176	0	1,336	0	0
CBOB	0	176	0	1,336	0	0
GTAB	—	—	—	—	—	—
Other	0	—	0	—	0	—
Renewable Fuels	—	—	—	—	—	—
Fuel Ethanol	—	—	—	—	—	—
Renewable Diesel Fuel ¹	—	—	—	—	—	—
Other Renewable Fuels	—	—	—	—	—	—
Finished Motor Gasoline	0	497	0	71	0	0
Reformulated	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—
Conventional	0	497	0	71	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—
Conventional Other	0	497	0	71	0	0
Finished Aviation Gasoline	—	—	—	—	—	—
Kerosene-Type Jet Fuel	0	12	0	16	0	0
Kerosene	0	—	0	—	0	—
Distillate Fuel Oil	0	485	0	440	0	0
15 ppm sulfur and under	0	485	0	440	0	0
Greater than 15 ppm to 500 ppm sulfur	—	0	0	—	0	—
Greater than 500 ppm sulfur	0	—	0	—	0	—
Residual Fuel Oil	—	—	—	—	—	—
Miscellaneous Products	—	—	—	—	—	—
Total	0	48,409	4,869	1,863	0	0

— = Not Applicable.

— = No Data Reported.

¹ Renewable diesel fuel includes biodiesel and other renewable diesel.

Sources: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report."

Table 59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, December 2021
(Thousand Barrels)

Commodity	From 1 to			From 2 to		
	2	3	5	1	3	5
Crude Oil	105	0	-	355	1,283	-
Petroleum Products	142	0	0	981	4,006	0
Natural Gas Liquids	-	0	-	0	0	-
Ethane	-	-	-	-	-	-
Propane	-	0	-	0	0	-
Normal Butane	-	-	-	-	-	-
Isobutane	-	-	-	-	-	-
Natural Gasoline	-	-	-	-	-	-
Unfinished Oils	0	0	-	-	1,167	-
Motor Gasoline Blending Components	0	0	-	482	355	-
Reformulated - RBOB	-	-	-	-	-	-
Conventional	0	0	-	482	355	-
CBOB	0	0	-	482	54	-
GTAB	-	-	-	-	-	-
Other	0	0	-	-	301	-
Renewable Fuels	0	0	0	189	872	0
Fuel Ethanol	0	0	-	189	829	-
Renewable Diesel Fuel ¹	0	0	0	-	43	0
Other Renewable Fuels	-	-	-	-	-	-
Finished Motor Gasoline	0	0	-	73	350	-
Reformulated	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-
Conventional	0	0	-	73	350	-
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Conventional Other	0	0	-	73	350	-
Finished Aviation Gasoline	0	0	-	0	0	-
Kerosene-Type Jet Fuel	25	0	-	0	0	-
Kerosene	-	-	-	-	-	-
Distillate Fuel Oil	117	0	-	237	24	-
15 ppm sulfur and under	117	0	-	237	24	-
Greater than 15 ppm to 500 ppm sulfur	-	-	-	-	-	-
Greater than 500 ppm sulfur	-	0	-	0	0	-
Residual Fuel Oil	0	0	-	0	936	-
Less than 0.31 percent sulfur	-	-	-	-	-	-
0.31 to 1.00 percent sulfur	0	0	-	-	449	-
Greater than 1.00 percent sulfur	0	0	-	0	487	-
Petrochemical Feedstocks	0	0	-	-	83	-
Naphtha for Petrochemical Feedstock Use	0	0	-	-	83	-
Other Oils for Petrochemical Feedstock Use	-	-	-	-	-	-
Special Naphthas	0	0	-	-	0	-
Lubricants	0	0	-	0	0	-
Waxes	-	-	-	-	-	-
Marketable Petroleum Coke	-	-	-	-	-	-
Asphalt and Road Oil	0	0	-	0	219	-
Miscellaneous Products	0	0	-	-	0	-
Total	247	0	0	1,336	5,289	0

See footnotes at end of table.

Table 59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, December 2021
(Thousand Barrels) — Continued

Commodity	From 3 to						From 5 to		
	1	New England	Central Atlantic	Lower Atlantic	2	5	1	2	3
Crude Oil	918	—	918	—	0	—	0	0	0
Petroleum Products	24,455	—	336	24,119	830	157	0	0	0
Natural Gas Liquids	52	—	—	52	—	—	0	—	0
Ethane	—	—	—	—	—	—	—	—	—
Propane	52	—	—	52	—	—	0	—	0
Normal Butane	—	—	—	—	—	—	—	—	—
Isobutane	—	—	—	—	—	—	—	—	—
Natural Gasoline	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	—	—	—	100	—	—	0	0
Motor Gasoline Blending Components	14,370	—	—	14,370	7	—	0	0	0
Reformulated - RBOB	—	—	—	—	—	—	—	—	—
Conventional	14,370	—	—	14,370	7	—	0	0	0
CBOB	14,370	—	—	14,370	0	—	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	—	—	—	—	7	—	—	0	0
Renewable Fuels	186	—	—	186	0	157	0	0	0
Fuel Ethanol	186	—	—	186	0	—	0	0	0
Renewable Diesel Fuel ¹	—	—	—	—	0	157	—	0	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	1,573	—	—	1,573	27	—	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	1,573	—	—	1,573	27	—	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	1,573	—	—	1,573	27	—	0	0	0
Finished Aviation Gasoline	45	—	—	45	10	—	0	0	0
Kerosene-Type Jet Fuel	3,593	—	—	3,593	176	—	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	3,810	—	—	3,810	172	—	0	0	0
15 ppm sulfur and under	3,708	—	—	3,708	172	—	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	—	—	—	—	—	—	—
Greater than 500 ppm sulfur	102	—	—	102	—	—	0	—	0
Residual Fuel Oil	27	—	—	27	0	—	0	0	0
Less than 0.31 percent sulfur	—	—	—	—	—	—	—	—	—
0.31 to 1.00 percent sulfur	—	—	—	—	0	—	—	0	0
Greater than 1.00 percent sulfur	27	—	—	27	0	—	0	0	0
Petrochemical Feedstocks	—	—	—	—	0	—	—	0	0
Naphtha for Petrochemical Feedstock Use	—	—	—	—	0	—	—	0	0
Other Oils for Petrochemical Feedstock Use	—	—	—	—	—	—	—	—	—
Special Naphthas	—	—	—	—	20	—	—	0	0
Lubricants	503	—	336	167	172	—	0	0	0
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	296	—	—	296	136	—	0	0	0
Miscellaneous Products	—	—	—	—	10	—	—	0	0
Total	25,373	—	1,254	24,119	830	157	0	0	0

— = No Data Reported.

¹ Renewable diesel fuel includes biodiesel and other renewable diesel.

Sources: Energy Information Administration (EIA) Form EIA-817, "Monthly Tanker and Barge Movements Report."

Table 60. Movements of Crude Oil and Selected Products by Rail Between PAD Districts, December 2021
(Thousand Barrels)

Commodity	From 1 to				From 2 to			
	2	3	4	5	1	3	4	5
Crude Oil	0	0	0	0	1,170	0	0	3,235
Propane	11	7	0	0	1,360	629	0	206
Propylene	0	0	–	–	401	727	–	–
Normal Butane	103	0	0	0	457	12	0	768
Isobutane	118	37	0	0	145	44	0	59
Fuel Ethanol	0	0	0	0	9,529	6,086	402	4,022
Biodiesel	48	0	0	0	259	394	26	399
Marketable Petroleum Coke	0	0	0	0	360	716	13	7
Asphalt and Road Oil	0	0	0	0	678	242	36	172

Commodity	From 3 to				From 4 to			
	1	2	4	5	1	2	3	5
Crude Oil	0	0	0	53	0	0	890	0
Propane	139	109	0	0	0	0	0	85
Propylene	0	0	–	–	0	0	0	–
Normal Butane	36	268	0	54	0	0	0	305
Isobutane	6	223	0	23	0	0	0	66
Fuel Ethanol	0	0	0	159	0	0	0	62
Biodiesel	3	0	0	124	0	0	0	0
Marketable Petroleum Coke	60	16	0	0	0	50	34	78
Asphalt and Road Oil	110	105	0	57	0	55	155	220

Commodity	From 5 to			
	1	2	3	4
Crude Oil	0	0	0	0
Propane	0	0	0	0
Propylene	0	0	0	–
Normal Butane	0	0	0	0
Isobutane	0	0	0	0
Fuel Ethanol	0	0	0	0
Biodiesel	0	0	0	3
Marketable Petroleum Coke	0	36	36	10
Asphalt and Road Oil	0	0	0	15

– = No Data Reported.
Source: Rail Movements are estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 61. Movements of Crude Oil by Pipeline, Tanker, Barge and Rail between PAD Districts, December 2021
(Thousand Barrels)

PADD	Pipeline	Tanker and Barge	Rail	Total
From 1 to				
2	117	105	0	222
3	31	0	0	31
4	0	—	0	0
5	—	—	0	0
From 2 to				
1	168	355	1,170	1,693
3	51,875	1,283	0	53,158
4	8,386	—	0	8,386
5	—	—	3,235	3,235
From 3 to				
1	129	918	0	1,047
2	18,727	0	0	18,727
4	0	—	0	0
5	—	—	53	53
From 4 to				
1	0	0	0	0
2	26,627	0	0	26,627
3	248	0	890	1,138
5	—	—	0	0
From 5 to				
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	—	0	0

— = No Data Reported.

Sources: Energy Information Administration (EIA) Forms EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 62. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge and Rail ¹ Between PAD Districts, December 2021
(Thousand Barrels)

Commodity	PAD District 1			PAD District 2			PAD District 3		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	2,740	253	2,487	45,576	66,473	-20,897	54,327	19,827	34,500
Petroleum Products	132,174	16,290	115,884	56,649	91,075	-34,426	54,143	133,563	-79,420
Natural Gas Liquids	9,200	7,083	2,117	39,152	52,688	-13,536	39,108	13,689	25,419
Ethane	0	5,111	-5,111	13,206	19,569	-6,363	18,293	1,412	16,881
Propane	7,316	998	6,318	10,115	20,198	-10,083	12,370	3,890	8,480
Normal Butane	1,733	231	1,502	3,863	6,918	-3,055	3,344	769	2,575
Isobutane	151	458	-307	2,935	2,009	926	1,734	1,371	363
Natural Gasoline	0	285	-285	9,033	3,994	5,039	3,367	6,247	-2,880
Refinery Olefins	401	0	401	0	1,128	-1,128	727	0	727
Ethylene	0	0	-	-	-	-	0	0	-
Propylene	401	0	401	0	1,128	-1,128	727	0	727
Normal Butylene	0	0	-	0	0	-	0	0	-
Isobutylene	0	0	-	0	0	-	0	0	-
Unfinished Oils	0	0	-	100	1,167	-1,067	1,167	100	1,067
Motor Gasoline Blending Components	60,631	5,898	54,733	8,990	4,853	4,137	1,974	65,642	-63,668
Reformulated - RBOB	7,416	0	7,416	483	243	240	243	9,765	-9,522
Conventional	53,215	5,898	47,317	8,507	4,610	3,897	1,731	55,877	-54,146
CBOB	52,736	5,898	46,838	8,500	4,309	4,191	1,430	55,391	-53,961
GTAB	0	0	-	-	-	-	-	-	-
Other	479	0	479	7	301	-294	301	486	-185
Renewable Fuels	10,165	48	10,117	48	22,177	-22,129	7,352	629	6,723
Fuel Ethanol	9,904	0	9,904	0	21,057	-21,057	6,915	345	6,570
Renewable Diesel Fuel ²	262	48	213	48	1,121	-1,072	437	284	153
Other Renewable Fuels	-	-	-	0	0	-	0	0	-
Finished Motor Gasoline	6,017	70	5,947	815	1,653	-838	350	5,069	-4,719
Reformulated	0	0	-	0	0	-	0	0	-
Reformulated Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Reformulated Other	-	-	-	-	-	-	0	0	-
Conventional	6,017	70	5,947	815	1,653	-838	350	5,069	-4,719
Conventional Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Ed55 and Lower	0	0	-	0	0	-	0	0	-
Greater than Ed55	0	0	-	0	0	-	0	0	-
Conventional Other	6,017	70	5,947	815	1,653	-838	350	5,069	-4,719
Finished Aviation Gasoline	45	0	45	10	0	10	0	55	-55
Kerosene-Type Jet Fuel	12,913	367	12,546	1,723	774	949	0	14,484	-14,484
Kerosene	160	0	160	0	0	-	0	160	-160
Distillate Fuel Oil	30,609	2,824	27,785	5,212	3,173	2,039	1,044	32,224	-31,180
15 ppm sulfur and under	29,399	2,824	26,575	5,104	3,173	1,931	1,044	30,906	-29,862
Greater than 15 ppm to 500 ppm sulfur	0	0	-	108	0	108	0	108	-108
Greater than 500 ppm sulfur	1,210	0	1,210	0	0	-	0	1,210	-1,210
Residual Fuel Oil	27	0	27	0	936	-936	936	27	909
Petrochemical Feedstocks	0	0	-	0	83	-83	83	0	83
Naphtha for Petrochemical Feedstock Use	0	0	-	0	83	-83	83	0	83
Other Oils for Petrochemical Feedstock Use	-	-	-	0	0	-	0	0	-
Special Naphthas	0	0	-	20	0	20	0	20	-20
Lubricants	503	0	503	172	0	172	0	675	-675
Waxes	0	0	-	0	0	-	0	0	-
Marketable Petroleum Coke	419	0	419	101	1,095	-994	786	75	711
Asphalt and Road Oil	1,084	0	1,084	296	1,347	-1,052	616	703	-88
Miscellaneous Products	0	0	-	10	0	10	0	10	-10
Total	134,915	16,543	118,372	102,225	157,548	-55,323	108,470	153,390	-44,920

See footnotes at end of table.

Table 62. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge and Rail ¹ Between PAD Districts, December 2021
(Thousand Barrels) — Continued

Commodity	PAD District 4			PAD District 5		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	8,386	27,765	-19,379	3,289	0	3,289
Petroleum Products	13,964	29,376	-15,412	13,473	99	13,374
Natural Gas Liquids	10,123	25,689	-15,566	1,566	0	1,566
Ethane	3,242	8,649	-5,407	0	0	—
Propane	3,635	8,641	-5,006	291	0	291
Normal Butane	1,491	3,640	-2,149	1,127	0	1,127
Isobutane	534	1,664	-1,130	148	0	148
Natural Gasoline	1,221	3,095	-1,874	0	0	—
Refinery Olefins	0	0	—	0	0	—
Ethylene	—	—	—	—	—	—
Propylene	0	0	—	0	0	—
Normal Butylene	0	0	—	0	0	—
Isobutylene	0	0	—	0	0	—
Unfinished Oils	0	0	—	0	0	—
Motor Gasoline Blending Components	1,649	1,512	137	4,661	0	4,661
Reformulated - RBOB	—	—	—	1,866	0	1,866
Conventional	1,649	1,512	137	2,795	0	2,795
CBOB	1,649	1,512	137	2,795	0	2,795
GTAB	—	—	—	—	—	—
Other	0	0	—	0	0	—
Renewable Fuels	431	62	368	4,924	3	4,921
Fuel Ethanol	402	62	340	4,243	0	4,243
Renewable Diesel Fuel ²	29	0	29	681	3	677
Other Renewable Fuels	0	0	—	0	0	—
Finished Motor Gasoline	107	568	-461	71	0	71
Reformulated	—	—	—	0	0	—
Reformulated Blended with Fuel Ethanol	—	—	—	0	0	—
Reformulated Other	—	—	—	—	—	—
Conventional	107	568	-461	71	0	71
Conventional Blended with Fuel Ethanol	0	0	—	0	0	—
Ed55 and Lower	0	0	—	0	0	—
Greater than Ed55	0	0	—	0	0	—
Conventional Other	107	568	-461	71	0	71
Finished Aviation Gasoline	0	0	—	0	0	—
Kerosene-Type Jet Fuel	710	28	682	307	0	307
Kerosene	0	0	—	0	0	—
Distillate Fuel Oil	870	925	-55	1,411	0	1,411
15 ppm sulfur and under	870	925	-55	1,411	0	1,411
Greater than 15 ppm to 500 ppm sulfur	0	0	—	0	0	—
Greater than 500 ppm sulfur	0	0	—	0	0	—
Residual Fuel Oil	0	0	—	0	0	—
Petrochemical Feedstocks	—	—	—	0	0	—
Naphtha for Petrochemical Feedstock Use	—	—	—	0	0	—
Other Oils for Petrochemical Feedstock Use	—	—	—	—	—	—
Special Naphthas	—	—	—	0	0	—
Lubricants	0	0	—	0	0	—
Waxes	0	0	—	0	0	—
Marketable Petroleum Coke	23	161	-138	84	81	3
Asphalt and Road Oil	51	430	-379	449	15	434
Miscellaneous Products	0	0	—	0	0	—
Total	22,350	57,141	-34,791	16,762	99	16,663

— = No Data Reported.

¹ Movements of crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil include movements by rail. Movements of other products are by pipeline, tanker and barge only.

² Renewable diesel fuel includes biodiesel and other renewable diesel.

Sources: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail net movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

District Descriptions and Maps

The following are the Refining Districts which make up the Petroleum Administration for Defense (PAD) Districts.

PAD District I

East Coast: The District of Columbia and the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New Jersey, Delaware, Maryland, Virginia, North Carolina, South Carolina, Georgia, Florida, and the following counties of the State of New York: Cayuga, Tompkins, Chemung, and all counties east and north thereof. Also the following counties in the State of Pennsylvania: Bradford, Sullivan, Columbia, Montour, Northumberland, Dauphin, York, and all counties east thereof.

Appalachian No. 1: The State of West Virginia and those parts of the States of Pennsylvania and New York not included in the East Coast District.

Sub-PAD District I

New England: The States of Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

Central Atlantic: The District of Columbia and the States of Delaware, Maryland, New Jersey, New York, and Pennsylvania.

Lower Atlantic: The States of Florida, Georgia, North Carolina, South Carolina, Virginia and West Virginia.

PAD District II

Indiana-Illinois-Kentucky: The States of Indiana, Illinois, Kentucky, Tennessee, Michigan, and Ohio.

Minnesota-Wisconsin-North and South Dakota: The States of Minnesota, Wisconsin, North Dakota, and South Dakota.

Oklahoma-Kansas-Missouri: The States of Oklahoma, Kansas, Missouri, Nebraska, and Iowa.

PAD District III

Texas Inland: The State of Texas except the Texas Gulf Coast District.

Texas Gulf Coast: The following counties of the State of Texas: Newton, Orange, Jefferson, Jasper, Tyler, Hardin, Liberty, Chambers, Polk, San Jacinto, Montgomery, Harris, Galveston, Waller, Fort Bend, Brazoria, Wharton, Matagorda, Jackson, Victoria, Calhoun, Refugio, Aransas, San Patricio, Nueces, Kleberg, Kenedy, Willacy, and Cameron.

Louisiana Gulf Coast: The following Parishes of the State of Louisiana: Vernon, Rapides, Avoyelles, Pointe Coupee, West Feliciana, East Feliciana, Saint Helena, Tangipahoa, Washington, and all Parishes south thereof. Also the following counties of the State of Mississippi: Pearl River, Stone, George, Hancock, Harrison, and Jackson. Also the following counties of the State of Alabama: Mobile and Baldwin.

North Louisiana-Arkansas: The State of Arkansas and those parts of the States of Louisiana, Mississippi, and Alabama not included in the Louisiana Gulf Coast District.

New Mexico: The State of New Mexico.

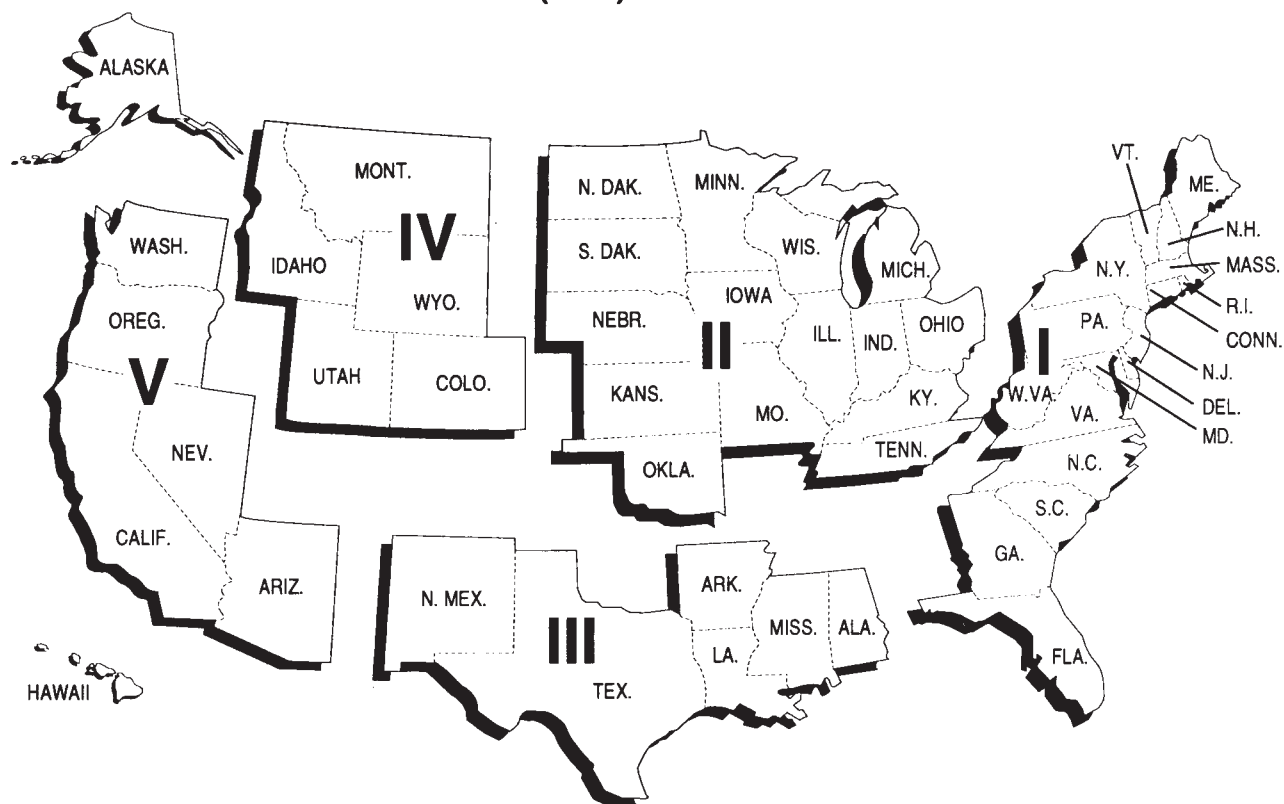
PAD District IV

Rocky Mountain: The States of Montana, Idaho, Wyoming, Utah, and Colorado.

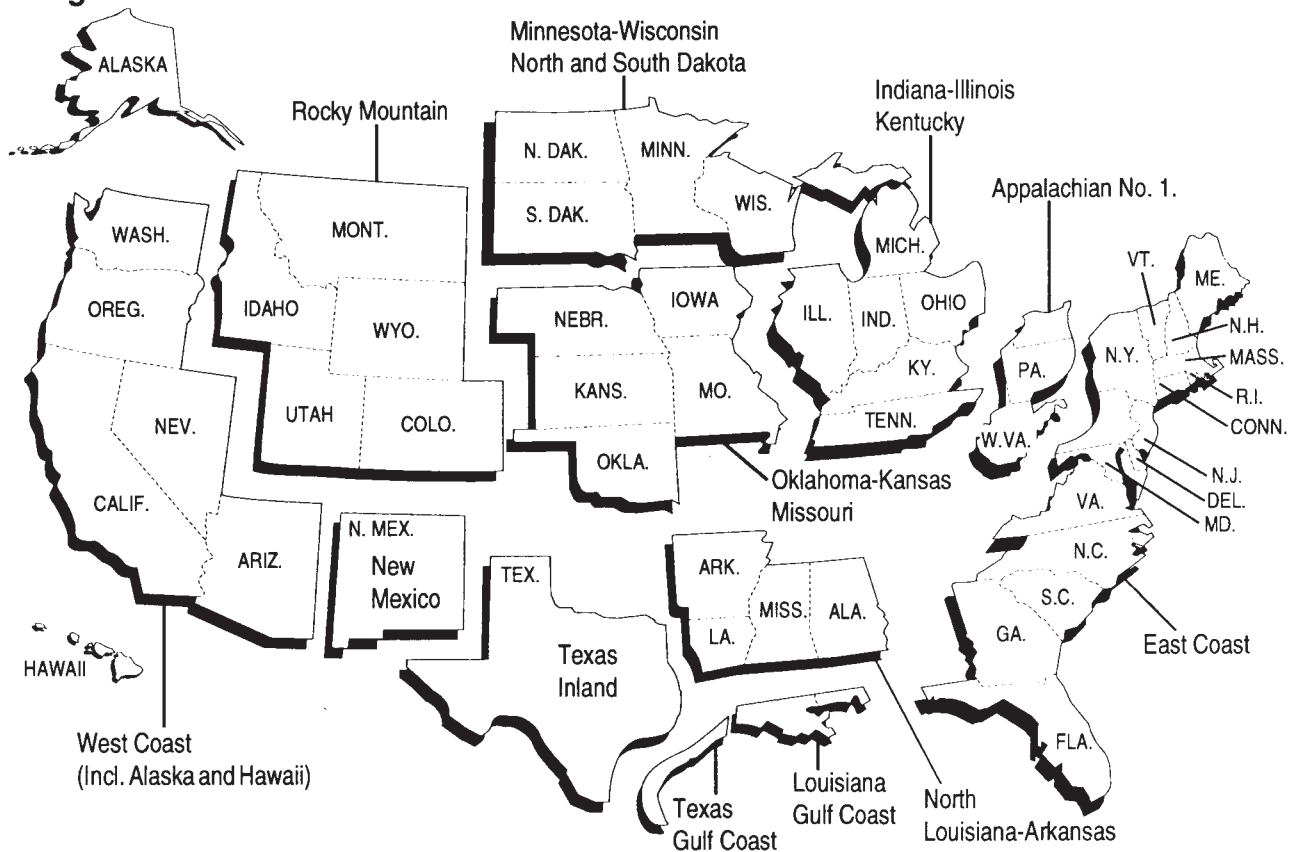
PAD District V

West Coast: The States of Washington, Oregon, California, Nevada, Arizona, Alaska, and Hawaii.

Petroleum Administration for Defense (PAD) Districts



Refining Districts



PSM Explanatory Notes

Preface

The *Petroleum Supply Monthly* (PSM) and *Petroleum Supply Annual* (PSA) are reports produced by the Monthly Petroleum Supply Reporting System (MPSRS) operated by the U.S. Energy Information Administration (EIA). The PSM and PSA track supply and disposition of crude oil, hydrocarbon gas liquids, petroleum products, and biofuels. The reports are produced by the Office of Petroleum and Biofuel Statistics of the U.S. Energy Information Administration (EIA).

Data presented in the PSM and PSA describe supply and disposition of crude oil, hydrocarbon gas liquids, petroleum products, and biofuels in the United States, and major U.S. geographic regions with selected data available at the state level. Data describe production, imports, exports, inter-Petroleum Administration for Defense District (PADD) movements, and inventories in the United States (50 States and the District of Columbia). The reporting universe includes operators engaged in primary supply activities including refining, motor gasoline blending, natural gas processing and fractionation, inter-PADD transportation, importers, and major inventory holders. When aggregated, data reported by operators in these sectors are used to derive consumption of petroleum products in the United States.

Monthly and year-to-date data are normally released in the PSM on the last business day of each month. Monthly data are available approximately 60 days after the end of each reference month. Revised monthly data and annual totals and averages are released in the PSA usually at the end of August each year.

Appendix B. Explanatory Notes

1. Overview

A. The Energy Information Administration's Quality Guidelines

Data contained in the *Petroleum Supply Monthly* (PSM) and *Petroleum Supply Annual* (PSA) are subject to information quality guidelines issued by the Office of Management and Budget (OMB), the Department of Energy (DOE), and Energy Information Administration (EIA). With available resources, EIA continually works to improve its systems in order to provide high quality information needed by public and private policymakers and decision makers. EIA has performance standards to ensure the quality (i.e., objectivity, utility, and integrity) of information it disseminates to the public. Quality is ensured and maximized at levels appropriate to the nature and timeliness of the disseminated information.

B. Concepts of Product Supply and Demand

Petroleum supply estimates contained in the PSM and PSA are used for calculation of petroleum demand measured as product supplied. Product supplied is often called “implied” demand because it is a measure of demand that is implied by disappearance of petroleum product barrels from facilities and activities in the “primary” supply chain. Facilities and activities in the primary supply chain include refineries, bulk storage and blending terminals, natural gas processing plants and fractionators, renewable fuels and oxygenate production plants, imports, exports, , and transportation by pipelines, tankers, barges, and railroads. Total product supplied at the U.S. level is equal to the sum of field production (including production of crude oil and natural gas liquids from natural gas processing plants), refinery and blender net production, renewable fuels and oxygenate plant net production, imports, and adjustments, minus the sum of stock change, refinery and blender net inputs, and exports. Net receipts are added to supply when product supplied is calculated for Petroleum Administration for Defense Districts (PADD). Crude oil product supplied is zero after September 1997 because crude oil is processed in refineries to produce fuels and other products rather than being used directly as fuel. Data include crude oil used directly as fuel between January 1981 and September 1997.

The secondary supply chain falls between primary supply and end-users. Product barrels typically flow in bulk quantities from primary supply into secondary supply before delivery to consumers. Fuels and other products held by consumers are considered to be in tertiary supply. Secondary supply facilities and activities include storage at bulk plants and retail outlets. Bulk plants are wholesale storage facilities that have less than 50,000 barrels of storage capacity and, as defined by EIA, receive product only by rail or truck, but not by barge, tanker, or pipeline. Tertiary inventories are held by end users and include fuel in vehicle tanks, heating oil in residential tanks, fuel oil held by utilities, fuel and nonfuel products held by end users, and certain proprietary storage of raw materials such as propane held at chemical plants for use as ethylene feedstock.

There is a delay between the time when barrels are reported as demand measured as product supplied and when the same barrels are actually consumed. The delay is due to the time required for barrels to move from primary supply through secondary and tertiary supply chains and ultimately to end users where the barrels are actually consumed as fuel, feedstock, or for other purposes. Users of demand measured as product supplied should expect product supplied to either anticipate or lag timing of actual petroleum consumption.

C. Components of Supply and Disposition

The detailed statistics tables in the *PSM* provide complete supply and disposition information for the current month and year to date. The tables are organized to locate National and Petroleum Administration for Defense (PAD) District supply and disposition data at the front followed by tables that contain detailed information on supply and disposition. These include tables on crude oil and petroleum product production, import/export data, stocks information, and lastly, data on crude oil and petroleum product movements. To assist in the interpretation of these tables, the following discussion of supply, disposition, and ending stocks as shown in Tables 1– 25 is provided. The categories and products are defined in the EIA Glossary.

(1.) Supply

a. Field Production - Total Field Production is the sum of crude oil production and natural gas plant liquids and liquefied refinery gases production.

Crude oil production is an estimate based on data received from State conservation agencies, the Mineral Management Service of the U.S. Department of the Interior and Form EIA-914 “Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report. Refer to “Domestic Crude Oil Production” in Section 2C (1) for further details.

Field production of natural gas plant liquids is reported on Form EIA-816 and published on a net basis (i.e., production minus inputs).

b. Renewable Fuels and Oxygenate Plant Net Production – Renewable fuels production included fuel ethanol beginning with data for January 2009, biodiesel beginning with data for January 2011, and renewable hydrocarbon biofuels (diesel, heating oil, jet, naphtha, gasoline, and other) beginning with data for January 2021. EIA included production of fuel oxygenates (ethyl tertiary butyl ether (ETBE), methyl tertiary butyl ether (MTBE), and other fuel oxygenates) as a component of the petroleum balance from January 2009 until December 2018. This supply category also includes net production of non-biofuel products, including petroleum-derived gasoline, distillate fuel oil, jet fuel, and kerosene and natural gas liquids, blended with biofuels as denaturants or for other purposes at biofuel producing plants. Negative production indicates the amount of a product produced during the month was less than the amount of that same product reported as input during the same month.

c. Refinery and Blender Net Production – Refinery and Blender Net Production is reported on Forms EIA-810 and EIA- 815. Refinery and Blender Net Production equals refinery and blenders production minus refinery and blender inputs. Negative production of finished petroleum products will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month.

d. Imports - Imports include receipts of goods into the 50 States and the District of Columbia from U.S. possessions and territories from foreign countries.

e. Net Receipts – Net Receipts data are included in tables containing PAD District-level data to account for inter-PAD District movements of crude oil and petroleum products. Net receipts for a PAD District are calculated by subtracting shipments out of the PAD District from receipts into the PAD District. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, and Barge, and Rail between PAD Districts are shown in Table 62.

f. Adjustments – This column includes adjustment quantities for crude oil, fuel ethanol, motor gasoline blending components, biodiesel (included in “Renewable Fuels Except Fuel Ethanol”) and distillate fuel oil. EIA calculates adjustment quantities to balance supply and disposition for selected products or to reclassify one product to another product. EIA calculates product supplied as the balancing item for most products and a measure of implied demand for petroleum products. EIA uses adjustments as balance items in cases where it does not make sense to interpret the balancing item as demand. Reclassifications reported in the adjustments column may be implied by the supply and disposition balance or reported on surveys. Recall that supply at the U.S. level is equal to the sum of field production, renewable fuels and oxygenate plant net production, refinery and blender net production, imports, and adjustments. Disposition at the U.S. level is equal to the sum of stock change, refinery and blender net inputs, exports, and products supplied. At the PAD District level, supply components include net receipts equal to gross receipts from other PAD Districts minus gross shipments to other PAD Districts. In every case, supply must equal disposition. Applicable components of supply and disposition vary depending on the product or product group. Unless otherwise noted in Section 2C, adjustment calculations that balance supply and disposition equal disposition minus supply for the U.S. and for each PAD District. EIA discontinued reporting adjustment quantities for non-fuel ethanol biofuels and distillate fuel oil beginning with data for January 2021.

(2.) Disposition

a. Stock Change – Stock Change is calculated as the difference between the current month Ending Stocks column and the Ending Stocks column in the prior month’s publication. A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.

b. Refinery and Blender Net Inputs – Refinery and Blender Net Inputs are inputs of crude oil and intermediate materials (unfinished oils, motor and aviation gasoline blending components, hydrocarbon gas liquids, hydrogen, renewable fuels, and other hydrocarbons) processed at refineries or blended at terminals to produce finished petroleum products.

Crude oil input represents total crude oil (domestic and foreign) input to atmospheric crude oil distillation units and other refinery processing units (e.g. vacuum distillation units).

Refinery and blender input of natural gas liquids equal gross input of natural gas liquids received from natural gas plants for blending and processing.

Inputs of unfinished oils, motor gasoline blending components, and aviation gasoline blending components are published on a net basis (i.e., refinery and blender input minus refinery and blender production). Negative inputs of unfinished oils and motor and aviation gasoline blending components will occur when the amount of a product produced during the month is greater than the amount of that same product that is input or reclassified to become another product during the same month.

c. Exports - Exports include shipments from the 50 States and the District of Columbia to Puerto Rico, the Virgin Islands, other U.S. possessions and territories and to foreign countries.

d. Products Supplied - Products supplied is a calculated measure of demand equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, (plus net receipts when calculated by PADD), plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

Product supplied values indicate quantities of petroleum products supplied for domestic consumption. Occasionally, the result for a product is negative because total disposition of the product exceeds total supply. Negative product supplied may occur for a number of reasons: (1) product reclassification has not been reported; (2) data were misreported or reported late; (3) in the case of calculations on a PADD basis, the figure for net receipts was inaccurate because the coverage of inter-PADD movements was incomplete; and (4) products such as gasoline blending components and unfinished oils have entered the primary supply channels with their production not having been reported (e.g. unfinished oils received at refineries for processing from petrochemical plants).

EIA reported crude oil burned as fuel on leases and by pipelines as either distillate or residual fuel oil product supplied prior to January 1983. EIA reported crude oil product supplied equal to crude oil used directly as reported on Form EIA-813 "Monthly Crude Oil Report" from January 1983 through December 2009. EIA discontinued reporting crude oil used directly on Form EIA-813 after December 2009.

(3.) Ending Stocks

Crude oil that is in-transit by water from Alaska and crude oil stored in the Strategic Petroleum Reserve is included. Primary Stocks exclude stocks of foreign origin that are held in bonded warehouse storage. Primary stocks of petroleum products also exclude secondary stocks held by dealers and jobbers and tertiary stocks held by consumers. Product stocks held as reserves by federal and state agencies are excluded from primary stock quantities reported by EIA, but quantities held in selected government reserves are provided in Appendix D.

Primary stocks of crude oil included barrels held on crude oil producing sites (lease stocks) until June 2016. Primary stocks of crude oil excluded lease stocks beginning with release of PSM data for July 2016 on September 30, 2016. Historical crude oil stocks in on eia.gov were revised beginning with data for January 2005 to exclude lease stocks. Data may be accessed from the following locations on the EIA web site.

http://www.eia.gov/dnav/pet/pet_sum_snd_d_nus_mbbbl_m_cur.htm

http://www.eia.gov/dnav/pet/pet_sum_crdsnd_k_m.htm

http://www.eia.gov/dnav/pet/pet_stoc_typ_c_nus_EPC0_mbbbl_m.htm

2. Components - Forms Discussions

The data presented in the *PSM* include data collected by the EIA on nine monthly petroleum supply surveys, export data obtained from the U. S. Bureau of the Census, and crude production data collected on Form EIA-914 as well as production data from State conservation agencies and the Minerals Management Service of the U. S. Department of Interior.

A. Petroleum Supply Reporting System

The nine monthly petroleum supply surveys are part of the Petroleum Supply Reporting System (PSRS). The PSRS tracks the supply and disposition of crude oil, petroleum products, and hydrocarbon gas liquids in the United States. The PSRS is organized into two data collection subsystems: the Weekly Petroleum Supply Reporting System (WPSRS) and the Monthly Petroleum Supply Reporting System (MPSRS). The WPSRS processes the data from the six weekly surveys. The MPSRS includes eight monthly surveys and one annual survey. The survey forms that comprise the PSRS are:

1. EIA-800, "Weekly Refinery and Fractionator Report,"
2. EIA-802, "Weekly Product Pipeline Report,"
3. EIA-803, "Weekly Crude Oil Stocks Report,"
4. EIA-804, "Weekly Imports Report,"
5. EIA-805, "Weekly Bulk Terminal Report,"
6. EIA-809, "Weekly Oxygenate Report,"
7. EIA-22M, "Monthly Biodiesel Production Survey," (discontinued effective with data for October 2020)
8. EIA-810, "Monthly Refinery Report,"
9. EIA-812, "Monthly Product Pipeline Report,"
10. EIA-813, "Monthly Crude Oil Report,"
11. EIA-814, "Monthly Imports Report,"
12. EIA-815, "Monthly Bulk Terminal Report."
13. EIA-816, "Monthly Natural Gas Liquids Report"

14. EIA-817, “Monthly Tanker and Barge Movement Report”
15. EIA-819, “Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene” (formerly “Monthly Oxygenate Report”)
16. EIA-820, “Annual Refinery Report.”

EIA administers weekly and monthly surveys at six key points along the petroleum and biofuel supply chain including refineries, fractionators, natural gas processing plants, bulk product storage and blending terminals, crude oil and product pipelines, crude oil stock holders, importers, and plants producing biofuels and fuel oxygenates. EIA also collects inter-PADD movements by pipelines, tankers, and barges using monthly surveys. Weekly surveys do not capture petroleum movements. EIA selects a sample of operators reporting on monthly surveys to also report on weekly surveys.

Annual U.S. refinery capacity data are collected on the Form EIA- 820, “Annual Refinery Report.” The EIA-820 data are published in the annual “Refinery Capacity Report.”

B. Monthly Supply Survey Description and Methodology

(1.) Description of Surveys Forms

Copies of the survey forms and instructions can be found at:
<https://www.eia.gov/survey/>

The Form EIA-22M “Monthly Biodiesel Production Survey” collects data on biodiesel plant location, operating status, annual production capacity, monthly biodiesel and co-product production, stocks, input of feedstocks, alcohol, and catalysts, and biodiesel sales. EIA discontinued Form EIA-22M effective with data for October 2020, and incorporated data previously collected on Form EIA-22M into Form EIA-819 “Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene.”

The Form EIA-810, “Monthly Refinery Report,” collects data on refinery input and capacity, sulfur content and API gravity of crude oil, and data on supply (beginning stocks, receipts, and production) and disposition (inputs, shipments, fuel use and losses, and ending stocks) of crude oil and refined products. Working and shell storage capacity for selected products is collected on an annual basis.

The Form EIA-812, “Monthly Product Pipeline Report,” collects data on end-of-month stocks and movements of petroleum products transported by pipeline. Intermediate movements for pipeline systems operating in more than two PAD Districts are included.

The Form EIA-813, “Monthly Crude Oil Report,” collects data on end-of-month stock levels of crude oil held in pipelines, and at tank farms operated by the reporting company, and Alaskan crude oil in transit by water. Data are reported by PADD including stocks held in the 50 states and the District of Columbia. In addition to stocks, EIA uses Form EIA-813 to collect inter-PADD movements of crude oil by pipeline. EIA collects movements for shipping and receiving PADDs with no intermediate PADD movements. EIA uses Form EIA-813 to collect annual storage capacity in data for the month of March.

The Form EIA-814, “Monthly Imports Report,” collects data on imports of crude oil and petroleum products (1) into the 50 States and the District of Columbia, (2) into Puerto Rico, the Virgin Islands, and other U.S. possessions (Guam, Midway Islands, Wake Island, American Samoa, and Northern Mariana Islands), and (3) from Puerto Rico, the Virgin Islands, and other U.S. possessions into the 50 States and the District of Columbia. Imports into Foreign Trade Zones located in the 50 States and the District of Columbia are considered imports into the 50 States and the District of Columbia. The type of commodity, port of entry, country of origin, quantity (thousand barrels), sulfur percent by weight, API gravity, and name and location of the processing or storage facility are reported. Sulfur percent by weight is requested for crude oil, crude oil burned as fuel, and residual fuel oil only. API gravity is requested for crude oil only. The name and location of the processing or storage facility is requested for crude oil and unfinished oils only.

The Form EIA-815, “Monthly Bulk Terminal Report,” collects data on the operations of all bulk terminals located in the 50 States, District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U. S. possessions. Beginning and end-of-month stocks, receipts, inputs, production, shipments, and fuel use and losses during the month are collected from operators of terminals. Working and shell storage capacity is collected on an annual basis.

The Form EIA-816, “Monthly Natural Gas Liquids Report,” collects data on the operations of natural gas processing plants and fractionators. Beginning and end-of-month stocks, receipts, inputs, production, shipments, and plant fuel use and losses during the month are collected from operators of natural gas processing plants. End-of-month stocks are collected from fractionators.

The Form EIA-817, “Monthly Tanker and Barge Movement Report,” collects data on the movements of crude oil and petroleum products between PAD Districts. Data are reported by shipping and receiving PAD District and sub-PAD District. Shipments to and from the Panama Canal are also included if the shipment was delivered to the Canal.

The Form EIA-819, “Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane and Isooctene” collects facility-level data on oxygenate inputs, production, gasoline blending at ethanol plants, and end-of-month stocks. Beginning in October 2020 it also collects facility-level data on biodiesel and renewable hydrocarbon fuels production and blending and end-of-month stocks. Plant operators report end-of-month stocks on site on a custody basis regardless of ownership as well as stocks in transit by rail, truck, and water to their plants.

(2.) Frame

EIA maintains complete lists of respondents to its monthly surveys. Each survey has a list of companies and facilities required to submit petroleum activity data. This list is known as the survey frame. Frame maintenance procedures are used to monitor the status of petroleum companies and facilities currently contained in each survey frame as well as to identify new members to be added to the frame. As a result, all known petroleum supply organizations falling within the definition of “Who Must Submit” participate in the survey.

The activities for frames maintenance are conducted on an ongoing basis. Monthly frames maintenance procedures focus on examining industry periodicals that report changes in status (births, deaths, sales, mergers, and acquisitions) of petroleum facilities producing, transporting, importing, and/or storing crude oil and petroleum products. Augmenting these sources are articles in newspapers, notices from respondents, and information received from survey systems operated by other offices. Survey managers review these sources regularly to monitor changes in company operations and to develop lists of potential respondents. These activities assure coverage of the reporting universe and maintain accurate facility information on addresses and ownership.

Respondents to Form EIA-22M “Monthly Biodiesel Production Survey” include operators of plants that produce biodiesel meeting ASTM D 6751-07B specifications and used for commercial purposes. This survey was discontinued in October 2020 and replaced with EIA-819 “Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene.

Respondents to Form EIA-810, “Monthly Refinery Report” include operators of all operating and idle petroleum refineries located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam and other U.S. possessions.

Respondents to Form EIA-812, “Monthly Product Pipeline Report” include all product pipeline companies that carry petroleum products (including interstate, intrastate, and intra-company pipelines) in the 50 States and the District of Columbia.

Respondents to Form EIA-813, “Monthly Crude Oil Report” include all companies which carry or store 1,000 barrels or more of crude oil. Included in this survey are gathering and trunk pipeline companies (including interstate, intrastate, and intra-company pipelines), crude oil tank farm operators, and companies transporting Alaskan crude oil by water (to U.S. ports) in the 50 States and the District of Columbia.

Respondents to Form EIA-814, “Monthly Imports Report” include each importer of record (or Ultimate consignee in some situations regarding Canadian imports) that import crude oil or petroleum products (1) into the 50 States and the District of Columbia, (2) into Puerto Rico, the Virgin Islands and other U.S. possessions (Guam, Midway Islands, Wake Island, American Samoa, and Northern Mariana Islands), (3) into Foreign Trade Zones located in the 50 States and the District of Columbia and (4) from Puerto Rico, the Virgin Islands and other U.S. possessions into the 50 States and the District of Columbia. A report is required only if there has been an import during the month unless the importer has been selected as part of a sample to report every month regardless of activity.

Respondents to Form EIA-815, “Monthly Bulk Terminal Report” include operators of all bulk terminals located in the 50 States, District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U. S. possessions must report. A bulk terminal is primarily used for storage, marketing, and often blending of petroleum products and has a total bulk storage capacity of 50,000 barrels or more, and/or receives petroleum products by tanker, barge, or pipeline. Bulk terminal facilities associated with a product pipeline are included.

Respondents to Form EIA-816, “Monthly Natural Gas Liquids Report” include operators of all facilities that extract liquid hydrocarbons from a natural gas stream (natural gas processing plant) and/or separate a liquid hydrocarbon stream into its component products (fractionator).

Respondents to Form EIA-817, “Monthly Tanker and Barge Movement Report” include all companies that have custody of crude oil or petroleum products transported by tanker or barge between Petroleum Administration for Defense Districts and all companies that have custody of crude oil or petroleum products originating from a PAD District and transported to the Panama Canal with the intent that the crude oil or petroleum products be further transported to another PAD District.

For purposes of this report, custody is defined as physical possession of crude oil or petroleum products on a company- owned tanker or barge. Also, companies that lease vessels or contract for the movement of crude oil or petroleum products on a tanker or barge between

PAD Districts are considered to have custody.

Respondents to Form EIA-819, “Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene” include all operators of facilities that produce (manufacture or distill) fuel alcohol, biodiesel, renewable diesel, heating oil, jet fuel, naphtha, gasoline and other renewable fuels and feedstocks, isooctane, isooctane and fuel oxygenates other than fuel alcohol (including MTBE plants, petrochemical plants, and refineries that produce oxygenates as part of their operations located in the 50 States and the District of Columbia.)

(3.) Collection

Survey data for the MPSRS are collected by Internet using secure file transfer, and electronic transmission. All respondents must submit their data by the 20th calendar day following the end of the report month. Receipt of the reports is monitored using an automated respondent mailing list. Telephone follow-up calls are made to nonrespondents prior to the publication deadline. Respondents who are chronically late (i.e., 3 consecutive months) are notified by EIA by certified letter.

(4.) Processing and Micro Editing

Upon receipt, all reported data are transformed into a standard format and sent through a log-in and prescreening process to validate respondent control information and resolve any discrepancies. The data are then processed using generalized edit and imputation procedures. Automated editing procedures check current data for consistency with past data and for internal consistency (e.g., totals equal to the sums of the parts). After the edit failures are resolved and imputation performed for nonrespondents, preliminary tables are produced and used to identify anomalies. These tables show U.S. and PAD District estimates for the current month and the prior 4 years. Anomalies result in further review of respondent data which in turn may result in additional flagged data and imputation.

(5.) Estimation and Imputation

The nine monthly supply surveys are census surveys. As such, the estimates using these data are the sum of the edited, reported data. Where possible, EIA uses imputed values to account for activity when a company fails to file. Depending on the survey, imputed values may be estimates based on weekly reports, estimates equal to prior-month reported quantities, or estimates based on non-survey data (e.g. imports quantities may be imputed using data provided to EIA by U.S. Customs and Border Protection). Imputation normally accounts for very small quantities in published totals because response rates to monthly surveys tend to be very high, typically exceeding 97 percent calculated as total reports received divided by total reports expected.

Adjustments are made to aggregate data from time to time. For example, unusual industry conditions, including fuel transitions, business practice shifts, or hurricane dislocations, may generate reporting anomalies and require adjustments. Measurement error and frame deficiencies may occasionally result in inconsistencies when individual respondent data are aggregated to publication levels and require adjustment. Monthly supply data are reviewed throughout the year and some estimates may be replaced with newly available or resubmitted respondent data in the Petroleum Supply Annual (PSA).

(6.) Macro Editing

EIA compares data reported by individual companies and plants on monthly and weekly surveys. EIA uses these comparisons to identify cases where reporting companies responded differently to the same or similar questions on weekly and monthly surveys and then works with reporting companies to identify and address inconsistent or erroneous reporting on surveys. EIA also compares aggregate and other data with external sources in order to identify and correct potential errors in reporting or survey methodology. EIA makes additional comparisons of survey data with model results. EIA may use imputation to correct known and/or suspected errors in data reported in the Petroleum Supply Monthly and Petroleum Supply Annual.

(7.) Dissemination

In most cases, EIA releases PSM data within 60 days of the close of the reference month. The PSM is available on the web at:

<http://www.eia.gov/petroleum/supply/monthly/>

Much of the PSM data are available in HTML format on eia.gov. Features include: downloadable spreadsheets containing complete data history, data tables which “pivot” to present different perspectives, and selection boxes to easily change the product, area, process, period, and unit of measure. Petroleum data can be accessed at: <http://www.eia.gov/petroleum/data.cfm>

C. Derived Data

Due to the time constraints in publishing monthly petroleum supply statistics and the desire to reduce industry response burden, some of the statistics published in the PSM are obtained from sources other than the monthly supply surveys. These other sources include models to data and data from supplemental sources such as the Bureau of the Census.

(1.) Domestic Crude Oil Production

The interim estimate of U.S., PAD District, and state oil production for the current reference month, published in Tables 1 through 26 of the PSM, are based on:

(a.) crude oil production data from state government agencies and the Department of the Interior, Bureau of Safety and Environmental Enforcement;

(b.) crude oil production data reported on Form EIA-914, “Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report.” For some states, EIA uses current reported data from the state (chiefly Alaska). For the states of Arkansas, California, Colorado, Kansas, Louisiana, Montana, New Mexico, North Dakota, Ohio, Oklahoma, Pennsylvania, Texas, Utah, West Virginia, Wyoming, and the Federal Gulf of Mexico, EIA calculates an estimate by modeling the relationship between final state-level data from DrillingInfo, a third-party vendor of well-level data collected by state agencies, and data reported on the EIA- 914 survey using weighted least squares (WLS) linear regression. Additional explanation of the WLS estimation methodology is available. Estimates have to be made for crude oil production because complete and correct data from states may take from several months to over two years.

(c.) first purchase data reported on Form EIA-182 “Domestic Crude Oil First Purchase Report.” For the remaining states and areas (Alabama, Arizona, Federal Pacific Offshore, Florida, Idaho, Illinois, Indiana, Kentucky, Maryland, Michigan, Mississippi, Missouri, Nebraska, Nevada, New York, Oregon, South Dakota, Tennessee, and Virginia) EIA calculates an estimate by using the average lagged ratio (ALR) of the state reported data to EIA-182 data, applied to the current EIA-182 data. Additional explanation of the ALR estimation methodology is available.

State-level production estimates are published in Table 26, “Production of Crude Oil by PAD District and State.” Table 26 contains estimates for crude oil production for state and federal offshore areas reported by state agencies and the Bureau of Safety and Environmental Enforcement or estimated by EIA using the ALR or WLS methods discussed above. Every month, the monthly crude oil production estimates are updated in Table 26 of the Petroleum Supply Monthly ([http:// www.eia.gov/petroleum/supply/monthly/](http://www.eia.gov/petroleum/supply/monthly/)) using reports from state agencies and the Bureau of Safety and Environmental Enforcement. The estimates are reported in the Petroleum Supply Monthly roughly 60 days after the production month.

(2.) Exports

The U.S. Bureau of the Census compiles the official U.S. export statistics. Exporters are required to file a “Shipper’s Export Declaration Document” with the U.S. Census Bureau. Each month the EIA receives aggregated export statistics from the U.S. Bureau of the Census (EM-522 and EM-594). Census export statistics used in the PSM reflect both government and non-governmental exports of domestic and foreign merchandise from the United States (the 50 States and the District of Columbia) to foreign countries and U.S. possessions, without regard to whether or not the exportation involves a commercial transaction. The following types of transactions are excluded from the statistics:

- Merchandise shipped in transit through the United States from one foreign country to another, when documented as such with U.S. Customs.
- Bunker fuels and other supplies and equipment for use on departing vessels, planes, or other carriers engaged in foreign trade.

The country of destination is defined as the country of ultimate destination or the country where the goods are to be consumed, further processed, or manufactured, as known to the shipper at the time of exportation. If the shipper does not know the country of ultimate destination, the shipment is credited to the last country to which the shipper knows that the merchandise will be shipped in the same form as it was when exported.

(3.) Movements of crude oil and select products by railroad

The volume of crude oil, ethanol, biodiesel, propane, propylene, normal butane, isobutane, petroleum coke, and asphalt moving by

railroad is calculated using several data sources including Carload Waybill Sample (CWS) data from the U.S. Surface Transportation Board (STB), data from the National Energy Board of Canada (NEB), data in EIA's Oil and Gas Supply Module (OGSM) within the National Energy Modeling system (NEMS) for data prior to 2015, the EIA-914 survey starting in January 2015, and an estimation procedure developed by EIA for months in which these data are not available.

Additional data from the NEB, OGSM, and the EIA-914 are used for estimating factors for converting carloads to barrels of crude oil. Carloads of ethanol, biodiesel, propane, propylene, normal butane, isobutane, petroleum coke, and asphalt are converted to barrels using data from the CWS.

The most current monthly STB waybill sample may not be received with sufficient lead time to be processed and included in the PSM publication. Further, STB aggregates and provides waybills based on the accounting period, while EIA is interested in the waybill date, which can differ by several months from the accounting period. In addition, waybills from non-Class I railroads might only be included in the sample for the last month of a calendar quarter. As a result, EIA may estimate anywhere from one to three months of rail movements, relying on historical averages or near-month model estimates for those months to be published in the PSM for which incomplete or no STB data are available.

Estimates of rail movements are subject to revision on a monthly basis as new, more complete, and more accurate data become available. Monthly revisions will typically affect data available on the EIA web site for the current year and up to two prior years. To the extent that revisions are needed to data more than 2 years in the past, these revisions will be made once a year at the time when Petroleum data html tables are updated with final data for a year from the Petroleum Supply Annual. Petroleum Supply Monthly and Petroleum Supply Annual tables released as PDF files will not be revised.

(4.) Stocks of Crude Oil held on Producing Sites (Lease Stocks)

The adjustment for lease stocks was discontinued beginning with PSM data for July 2016 released on September 30, 2016 because EIA discontinued reporting crude oil stocks held on producing sites (lease stocks). The lease stock adjustment remains in all historical EIA lease stocks data.

This adjustment corrects for incomplete survey coverage of companies that store crude oil on leases. Up until 1983, monthly state government data on lease stocks were substituted for EIA data wherever possible in order to rectify the understatement of lease crude oil stocks. State data were available from three states - Texas, New Mexico, and Montana. To calculate the "lease adjustment," a comparison between EIA reported data and the state government data was made and the difference added to the EIA data for the respective states.

In 1983, the EIA modified the Form EIA-813 to eliminate state data on crude oil stocks and began collecting crude oil stock data by Petroleum Administration for Defense (PAD) District. With this change, the "lease adjustment" could no longer be calculated on a state basis and was changed to a PAD District level. To adjust for this incomplete coverage, 10,300 thousand barrels of crude oil are added to PAD District 3 stocks and 330 thousand barrels are added to PAD District 4 stocks.

(5.) Trans-Alaska Pipeline System (TAPS) Natural Gas Plant Liquids (NGPL) Adjustment

The TAPS-NGPL adjustment corrects for overstatement of crude oil receipts and input at refineries due to NGPL injection into Alaskan crude oil transported in TAPS. Natural gas processing plants in Alaska produce substantial volumes of NGPL that are added to crude oil transported through TAPS. Refiners have been unable to separate the volume of NGPL from Alaskan crude oil when reporting crude oil receipts and inputs to EIA. The TAPS-NGPL adjustment subtracts Alaskan NGPL production reported by selected gas processing plant operators from crude oil receipts and inputs reported by refiners. Adjusted NGPL production is added to refinery receipts and inputs of NGPL. The adjusted NGPL barrels are allocated to PAD Districts based on the regional distribution of receipts of Alaskan crude oil. Data most affected by the TAPS- NGPL adjustment are receipts and inputs of crude oil in PAD District 5 and receipts, inputs, and product supplied of butane and natural gasoline also in PAD District 5.

NGPL injections into crude oil transported in the TAPS started in 1987. The TAPS-NGPL adjustment was first applied to revised data reported in the Petroleum Supply Annual (PSA) for 1988.

(6.) Finished Motor Gasoline Adjustment

Adjustment quantities for finished motor gasoline are the sum of motor gasoline blending components, fuel ethanol, and methyl tertiary butyl ether (MTBE) adjustments reclassified to finished motor gasoline. Finished motor gasoline adjustment quantities are assumed to reflect gasoline blending activity that was not reported on surveys.

Note on MTBE Adjustment: The MTBE portion of the gasoline adjustment described in this section was only applied to Petroleum Supply Monthly (PSM) data for 2009. The MTBE portion of the gasoline adjustment was discontinued after further examination

of the issue made clear the MTBE adjustment was not helpful in forming an accurate statistical representation of U.S. and regional gasoline supplies. The MTBE adjustment was not applied to gasoline supply and disposition data in years prior to 2009, nor was it applied to revised data for 2009 published in the Petroleum Supply Annual or in years after 2009. This note only applies to MTBE adjustments. MTBE blending that was reported on EIA surveys is reflected in U.S. and regional gasoline supply and disposition data. Other adjustments to gasoline supply and disposition data to account for motor gasoline blending components and fuel ethanol remain as described in this section.

- Adjustment quantities for finished reformulated motor gasoline include adjustments for reformulated blendstock for oxygenate blending (RBOB) plus a percentage of gasoline treated as blendstock (GTAB), “other” motor gasoline blending components, fuel ethanol, and MTBE. The quantity of GTAB and “other” motor gasoline blending components adjustments reclassified to finished reformulated motor gasoline is based on the ratio of finished reformulated motor gasoline net production divided by total finished motor gasoline net production reported on surveys by refiners and blenders in each PAD District. Motor gasoline blending components adjustments reclassified to finished reformulated motor gasoline are further classified as blended with alcohol (i.e. fuel ethanol), blended with ether (i.e. MTBE), or non-oxygenated during 2009.

Starting with data for January 2010, motor gasoline blending component adjustment quantities were classified only as blended with fuel ethanol and “other”. During 2009, RBOB adjustment quantities were classified based on the product description that included reference to the oxygenate to be blended. Beginning with data for January 2010, all RBOB is reported in one product category without reference to specific oxygenates, and all RBOB adjustment quantities are assumed blended with fuel ethanol. During 2009, adjustment quantities for GTAB and “other” motor gasoline blending components reclassified to finished reformulated gasoline were further classified as blended with ether, blended with alcohol, or non-oxygenated based on the ratio of production of these products in reported survey data. After determining adjustment quantities of motor gasoline blending components reclassified to each type of finished reformulated motor gasoline, portions of the fuel ethanol and MTBE adjustments were reclassified to reformulated motor gasoline. The fuel ethanol quantity reclassified to finished reformulated motor gasoline was determined using the ratio of fuel ethanol blended into finished motor gasoline calculated from fuel ethanol blending data reported on survey forms by PAD District. For example, if the calculated volumetric fuel ethanol blend ratio was 10%, then a quantity of the fuel ethanol adjustment sufficient to make a 10% blend with the available motor gasoline blending components is reclassified to finished reformulated motor gasoline, but the quantity of fuel ethanol cannot exceed the total quantity of the fuel ethanol adjustment. During 2009, a similar process was followed for allocating the MTBE adjustment to reformulated motor gasoline except the blend ratio was assumed to be 12% in all PAD Districts. Starting with data for January 2010, the entire MTBE adjustment quantity is assumed to be blended with finished conventional motor gasoline.

- Adjustment quantities for finished conventional motor gasoline include adjustments for conventional blendstock for oxygenate blending (CBOB) plus the portion of GTAB, “other” motor gasoline blending components, fuel ethanol and MTBE adjustments that were not reclassified to finished reformulated motor gasoline. The total adjustment to finished conventional motor gasoline is further classified as finished conventional gasoline blended with fuel ethanol and “other” finished conventional motor gasoline. The quantity of the finished conventional motor gasoline adjustment reclassified as finished conventional motor gasoline blended with fuel ethanol is determined using the quantity of the fuel ethanol adjustment allocated to finished conventional motor gasoline and the fuel ethanol blend ratio calculated from fuel ethanol blending reported on surveys by PAD District. For example, if the fuel ethanol blend ratio calculated from survey data was 10% in a PAD District, then the total adjustment quantity of finished conventional motor gasoline in that PAD District would be 10 times the fuel ethanol adjustment quantity allocated to finished conventional gasoline (i.e. the adjustment to finished conventional motor gasoline blended with fuel ethanol includes 10% fuel ethanol and 90% gasoline from the motor gasoline blending components adjustment). The MTBE adjustment allocated to finished conventional motor gasoline is simply added to the adjustment for “other” finished conventional motor gasoline.

- Fuel ethanol adjustment quantities frequently exceed the volume of fuel ethanol needed to achieve a blend ratio implied by blending activity reported by refiners and blenders on surveys when considering only the gasoline barrels available from the motor gasoline blending components adjustment. In this case, “other” finished conventional motor gasoline is reclassified by the adjustment to finished conventional motor gasoline blended with alcohol in order to maintain an ethanol blend ratio equal to the fuel ethanol blend ratio reported by refiners and blenders in each PAD District.

(7.) Motor Gasoline Blending Components Adjustment

Adjustment quantities for motor gasoline blending components at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports and renewable fuels and oxygenate plant net production (i.e. motor gasoline blending components use as denaturant for fuel ethanol production). Adjustment quantities by PAD District equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports, renewable fuels and oxygenate plant net production, and net

receipts. Motor gasoline blending components adjustments are calculated for reformulated blendstock for oxygenate blending (RBOB), conventional blendstock for oxygenate blending (CBOB), gasoline treated as blendstock (GTAB), and “other” motor gasoline blending components. Product supplied for motor gasoline blending components is assumed to always equal zero because there is no end-user demand for motor gasoline blending components as anything other than finished motor gasoline. Motor gasoline blending components adjustment quantities are assumed to reflect finished motor gasoline blending implied by the supply and disposition balance but not reported on surveys. Adjustment quantities for motor gasoline blending components are reclassified to finished motor gasoline and added to the finished motor gasoline adjustment.

(8.) Renewable Fuels including Fuel Ethanol Adjustment

For data prior to January 2021, adjustment quantities for renewable fuels (including fuel ethanol) at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of renewable fuels and oxygenate plant net production and imports. Calculation of adjustment quantities by PADD depend on the product. Individual products include fuel ethanol, biomass based diesel fuel (including biodiesel), “other” renewable diesel fuel, and “other” renewable fuels (e.g. bio-jet fuel). Product supplied for renewable fuels (including fuel ethanol) is assumed equal to zero. Adjustments for fuel ethanol and “other” renewable fuels are discussed separately below. Beginning with data for January 2021, EIA discontinued calculating adjustment quantities for biomass based diesel fuel (including biodiesel), “other” renewable diesel fuel, and “other” renewable fuels (e.g. bio-jet fuel). EIA now includes these adjustment quantities as product supplied.

- Fuel ethanol adjustment quantities at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of renewable fuels and oxygenate plant net production and imports. Adjustment quantities by PADD District equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports, renewable fuels and oxygenate plant net production, and net receipts. Fuel ethanol adjustment quantities are assumed to reflect blending of fuel ethanol into finished motor gasoline that is implied by the available supply of fuel ethanol but not reported on surveys. Fuel ethanol adjustment volumes are reclassified to finished reformulated motor gasoline and finished conventional motor gasoline through finished motor gasoline adjustments.
- The product category called “renewable fuels except fuel ethanol” includes biomass-based diesel fuel (including biodiesel), “other” renewable diesel fuel, and “other” renewable fuels (e.g. bio-jet fuel). For PSM data prior to January 2012, EIA calculated adjustment quantities for renewable fuels except fuel ethanol at the U.S. and PADD levels equal to the sum of stock change, refinery and blender net input, and exports minus imports. Data for production of Renewable Fuels except Fuel Ethanol was unavailable and was excluded from Renewable Fuels and Oxygenate Plant Net Production. Therefore the calculation of adjustments to Renewable Fuels except Fuel Ethanol caused production to be included in the adjustment. Similarly, the calculation caused net inter-PADD movements (i.e. net receipts) by rail and truck to also be included in adjustments to renewable fuels except fuel ethanol.

Beginning with PSM data for January 2012, and PSA data for 2011 through December, 2020 production of biodiesel reported on Form EIA-22M was included under the heading of “renewable fuels and oxygenate plant net production” in petroleum supply and disposition balances for “renewable fuels except fuel ethanol”. As a result, the adjustment for “renewable fuels except fuel ethanol” excludes production of biodiesel beginning with data for January 2012. Beginning with data for January 2010 EIA included rail movements of biodiesel in inter-PADD movements, and so rail movements were excluded from adjustment quantities.

- For data prior to January 2021, biodiesel adjustment quantities at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of renewable fuels and oxygenate plant net production and imports. Adjustment quantities by PADD equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports, renewable fuels and oxygenate plant net production, and net receipts. Biodiesel adjustment quantities are assumed to reflect blending of biodiesel into distillate fuel oil that is implied by the available supply of biodiesel but not reported as input on surveys. Biodiesel adjustment volumes are reclassified to distillate fuel oil (15 ppm sulfur and under) through distillate fuel oil adjustments. EIA discontinued calculating biodiesel and distillate fuel oil adjustment quantities beginning with data for January 2021. EIA now includes barrels of biodiesel formerly reported in adjustment quantities as product supplied of renewable fuels except fuel ethanol.

Beginning with PSM data for January 2021, EIA included production of renewable diesel, heating oil, jet fuel, naphtha, gasoline, and other renewable fuels and feedstocks reported on Form EIA-819 under the heading of “renewable fuels and oxygenate plant net production” in petroleum supply and disposition balances for “renewable fuels except fuel ethanol”. EIA now reports barrels formerly included in adjustment quantities as product supplied.

(9.) Distillate Fuel Oil Adjustment

Adjustment quantities for distillate fuel oil show reclassification by pipeline operators of distillate fuel oil with sulfur content of 15 ppm and under to distillate fuel oil with sulfur content greater than 15 ppm to 500 ppm (inclusive). Reclassification may occur when distillate product with sulfur content of 15 ppm and under becomes mixed with products having higher sulfur content during pipeline transportation, storage, or handling. Adjustment quantities are reported by pipeline operators on Form EIA-812 “Monthly Product Pipeline Report.” This adjustment was discontinued after publication of data for December 2010.

For PSM data from January 2012 and PSA data from January 2011 through December 2020, EIA calculated distillate fuel oil adjustments equal to the opposite of biodiesel adjustment quantities described above in section 8. EIA added biodiesel adjustment quantities to supply of distillate fuel oil (15 ppm sulfur and under) and total distillate fuel oil. EIA assumed that distillate fuel oil adjustment quantities reflected biodiesel blending activity implied by biodiesel supply and disposition but not reported on surveys. Beginning with data for January 2021, EIA discontinued calculating and reporting distillate fuel oil adjustment quantities.

(10.) Crude Oil Adjustment

Adjustment quantities for crude oil are derived to balance crude oil supply and disposition. Crude oil product supplied was equal to crude oil used directly as reported on Form EIA-813 “Monthly Crude Oil Report” in data through December 2009. Reporting crude oil used directly was discontinued on Form EIA-813 after collection of data for December 2009. Crude oil product supplied is assumed equal to zero beginning with data for January 2010. Undercounting crude oil imports in survey data is one example of a typical cause of crude oil adjustments. This results in a positive crude oil adjustment because crude oil disposition (i.e. the sum of stock change, refiner inputs, and exports) will exceed available supply (i.e. the sum of field production and imports) due to import undercounting. Crude oil losses are included in crude oil adjustment quantities. The crude oil adjustment was formerly called unaccounted-for crude oil. The name change was effective with data for January 2005.

(11.) Other Hydrocarbon Adjustment

Adjustment quantities for “other” hydrocarbons equal the sum of stock change, refinery and blender net inputs and exports minus imports. “Other” hydrocarbons product supplied is assumed equal to zero. Adjustment quantities account for “other” hydrocarbons produced outside of refineries. There are no movements data collected on surveys for “other” hydrocarbons. Therefore, adjustment quantities include any net receipts of “other” hydrocarbons resulting from inter-PAD District movements.

(12.) Hydrogen Adjustment

Adjustment quantities for hydrogen equal refinery and blender net input of hydrogen. Hydrogen product supplied is assumed equal to zero. Adjustment quantities account for hydrogen supplied to U.S. refineries from non-refinery sources. There are no movements data collected on surveys for hydrogen. Therefore, adjustment quantities at the PAD District level include any net receipts of hydrogen resulting from inter-PAD District movements.

(13.) Oxygenates (excluding fuel ethanol) Adjustment

Adjustment quantities for oxygenates (excluding fuel ethanol) equal the sum of stock change, refinery and blender net inputs, and exports minus the sum of renewable fuels and oxygenate plant net production and imports. Product supplied for oxygenates (excluding fuel ethanol) is assumed equal to zero. Methyl tertiary butyl ether (MTBE) is the single largest component of oxygenates (excluding fuel ethanol). Beginning with PSA data for 2019, EIA excluded oxygenates supply and disposition from U.S. and regional balance tables.

3. Quality

A. General Discussion

(1.) Response Rates

The response rate is generally 98 to 100 percent. Average response rates for the monthly and weekly surveys are published in the annual PSM article “Accuracy of Petroleum Supply Data.” Chronic nonrespondents and late filing respondents are contacted in writing and reminded of their requirement to report. Companies that file late or fail to file are subject to criminal fines, civil penalties, and other sanctions as provided by Section 13(i) of the Federal Energy Administration (FEA) Act.

(2.) Non-sampling Errors

There are two types of errors usually associated with data produced from a survey; sampling errors and nonsampling errors. Because the estimates for the monthly surveys are based on a complete census of the frame, there is no sampling error in the data presented. The data, however, are subject to non-sampling errors. Non-sampling errors may arise from a number of sources including: (1) the inability

to obtain data from all companies in the frame (non-response) and the method used to account for non-response, (2) response errors, (3) differences in the interpretation of questions or definitions, (4) mistakes in recording or coding of the data obtained from respondents, and (5) other errors of collection, response, coverage, processing, and estimation.

(3.) Resubmissions

Throughout the year, EIA accepts data revisions of monthly data. If a revision to a monthly submission is made after the *PSM* has been published, it is referred to as a resubmission. The final monthly values for the previous year are published in the *PSA*. These values reflect all *PSM* resubmissions and other data corrections. The values contained in the *PSA* are EIA's most accurate measure of petroleum supply activity.

(4.) Revision Policy

EIA will publish revised monthly crude oil production estimates going back to the previously published Petroleum Supply Annual every month in petroleum data tables ([http:// www.eia.gov/petroleum/supply/monthly/](http://www.eia.gov/petroleum/supply/monthly/)). Once a year with the release of the Petroleum Supply Annual, EIA will revise up to 10 years of historical production estimates in petroleum data tables.

B. Data Assessment

The principal objective of the PSRS is to provide an accurate picture of petroleum industry activities and of the availability of petroleum products nationwide from primary distribution channels. The *PSM* preliminary monthly data serve as leading indicators of the final monthly data published in the *PSA*. The *PSM* monthly data are not expected to have the same level of accuracy as the final monthly data published in the *PSA*. However, the preliminary monthly data are expected to exhibit like trends and product flow characteristic of the final monthly data.

To assess the accuracy of monthly statistics, initial monthly estimates published in the *PSM* are compared with the final monthly aggregates published in the *PSA*. Although final monthly data are still subject to error, they have been thoroughly reviewed and edited, they reflect all revisions made during the year, and they are considered to be the most accurate data available. The mean absolute percent error provides a measure of the average revisions relative to the aggregates being measured for a variable. The mean absolute percent error for 2007 monthly data was less than 1 percent for 50 of the 66 major petroleum variables analyzed.

4. Provisions Regarding Disclosure of Information

All PSRS survey forms, with the exception of the Form EIA-814, "Monthly Imports Report," have the same general disclosure information statement. The information reported on Form EIA-814 will be considered "public information" and may be publicly released in company or individually identifiable form, and will not be protected from disclosure in identifiable form. In addition, biofuel production capacity data reported on Form EIA-819 and Form EIA-22M will be released in company identifiable form. Refinery distillation capacity collected on Form EIA-810 also may be released in company identifiable form. EIA releases annual refinery input and production capacities in company identifiable form each year in the Annual Refinery Capacity Report.

Except as described above, information reported on Forms EIA-810 through 813, 815 through 817, 819, 820, and 22M will be protected and not disclosed to the public to the extent that it satisfies the criteria for exemption under the Freedom of Information Act (FOIA), 5 U.S.C. §552, the Department of Energy (DOE) regulations, 10 C.F.R. §1004.11, implementing the FOIA, and the Trade Secrets Act, 18 U.S.C. §1905. The Federal Energy Administration Act requires the EIA to provide company-specific data to other Federal agencies when requested for official use. The information reported on this form may also be made available, upon request, to another DOE component; to any Committee of Congress, the Government Accountability Office, or other Federal agencies authorized by law to receive such information. A court of competent jurisdiction may obtain this information in response to an order. The information may be used for any nonstatistical purposes such as administrative, regulatory, law enforcement, or adjudicatory purposes.

Disclosure limitation procedures are not applied to the statistical data aggregated and published from these survey's information. Thus, there may be some statistics that are based on data from fewer than three respondents, or that are dominated by data from one or two large respondents. In these cases, it may be possible for a knowledgeable person to estimate the information reported by a specific respondent.

In addition to the use of the information by EIA for statistical purposes, the information may be made available, upon request, to other Federal agencies authorized by law to receive such information for any nonstatistical purposes such as administrative, regulatory, law enforcement, or adjudicatory purposes.

Company specific data are also provided to other DOE offices for the purpose of examining specific petroleum operations in the context of emergency response planning and actual emergencies.

Northeast Reserves

Reserves inventories are not considered to be in the commercial sector and are excluded from EIA's commercial motor gasoline and distillate fuel oil supply and disposition statistics, such as those reported in the *Weekly Petroleum Status Report*, *Petroleum Supply Monthly*, and *This Week In Petroleum*.

Northeast Home Heating Oil Reserve classified as ultra-low sulfur distillate (15 parts per million)

Terminal Operator	Location	Thousand Barrels
Buckeye Partners LP	Port Reading, NJ	300
Buckeye Partners LP	Groton, CT	300
Global Companies LLC	Revere, MA	201
Gulf Oil LP	Chelsea, MA	200

Source: U. S. Energy Information Administration

Northeast Regional Refined Petroleum Product Reserve motor gasoline products

Terminal Operator	Location	Thousand Barrels
Kinder Morgan Liq Terminals LLC	Carteret, NJ	0
Buckeye Terminals LLC	Port Reading, NJ	0
Buckeye Terminals LLC	Raritan Bay, NJ	700
Global Companies LLC	Revere, MA	200
South Portland Terminal LLC	South Portland, ME	99

Source: U. S. Energy Information Administration

Other reserves information from the U.S. Department of Energy, Office of Petroleum Reserves can be found at <http://energy.gov/fe/services/petroleum-reserves/>

State of New York's Strategic Fuels Reserve Program

State reserve inventories are also not considered to be in the commercial sector and are excluded from EIA's commercial inventories and are excluded from supply and disposition statistics, such as those reported in the *Weekly Petroleum Status Report*, *Petroleum Supply Monthly*, and *This Week In Petroleum*.

Product	Location	Thousand Barrels
Motor Gasoline Blending Components	NY	85
Fuel Ethanol	NY	9
Distillate Fuel Oil, 15 ppm Sulfur and Under	NY	34

Source: New York State Energy Research & Development Authority

Definitions of Petroleum Products and Other Terms

(Revised June 2021)

Alcohol. The family name of a group of organic chemical compounds composed of carbon, hydrogen, and oxygen. The series of molecules vary in chain length and are composed of a hydrocarbon plus a hydroxyl group; $\text{CH}_3\text{-(CH}_2\text{)}_n\text{-OH}$ (e.g., methanol, ethanol, and tertiary butyl alcohol).

Alkylate. The product of an alkylation reaction. It usually refers to the high octane product from alkylation units. This alkylate is used in blending high octane gasoline.

Alkylation. A refining process for chemically combining isobutane with olefin hydrocarbons (e.g., propylene, butylene) through the control of temperature and pressure in the presence of an acid catalyst, usually sulfuric acid or hydrofluoric acid. The product, alkylate, an isoparaffin, has high octane value and is blended with motor and aviation gasoline to improve the antiknock value of the fuel.

All Other Motor Gasoline Blending Components. See Motor Gasoline Blending Components.

API Gravity. An arbitrary scale expressing the gravity or density of liquid petroleum products. The measuring scale is calibrated in terms of degrees API; it may be calculated in terms of the following formula:

$$\text{Degrees API} = \frac{141.5}{\text{sp. gr. @ } 60^\circ \text{ F}} - 131.5$$

The higher the API gravity, the lighter the compound. Light crudes generally exceed 38 degrees API and heavy crudes are commonly labeled as all crudes with an API gravity of 22 degrees or below. Intermediate crudes fall in the range of 22 degrees to 38 degrees API gravity.

Aromatics. Hydrocarbons characterized by unsaturated ring structures of carbon atoms. Commercial petroleum aromatics are benzene, toluene, and xylene (BTX).

Asphalt. A dark-brown-to-black cement-like material containing bitumens as the predominant constituent obtained by petroleum processing; used primarily for road construction. It includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates blended with asphalt to make cutback asphalts. Note: The conversion factor for asphalt is 5.5 barrels per short ton.

ASTM. The acronym for the American Society for Testing and Materials.

Atmospheric Crude Oil Distillation. The refining process of separating crude oil components at atmospheric pressure by heating to temperatures of about 600 degrees Fahrenheit to 750 degrees Fahrenheit (depending on the nature of the crude oil and desired products) and subsequent condensing of the fractions by cooling.

Aviation Gasoline (Finished). A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in aviation reciprocating

engines. Fuel specifications are provided in ASTM Specification D 910 and Military Specification MIL-G-5572. Note: Data on blending components are not counted in data on finished aviation gasoline.

Aviation Gasoline Blending Components. Naphthas which will be used for blending or compounding into finished aviation gasoline (e.g., straight-run gasoline, alkylate, reformat, benzene, toluene, and xylene). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus. Oxygenates are reported as other hydrocarbons, hydrogen, and oxygenates.

Barrel. A unit of volume equal to 42 U.S. gallons.

Barrels Per Calendar Day. The amount of input that a distillation facility can process under usual operating conditions. The amount is expressed in terms of capacity during a 24-hour period and reduces the maximum processing capability of all units at the facility under continuous operation (see **Barrels per Stream Day**) to account for the following limitations that may delay, interrupt, or slow down production:

the capability of downstream facilities to absorb the output of crude oil processing facilities of a given refinery. No reduction is made when a planned distribution of intermediate streams through other than downstream facilities is part of a refinery's normal operation;

the types and grades of inputs to be processed;

the types and grades of products expected to be manufactured;

the environmental constraints associated with refinery operations;

the reduction of capacity for scheduled downtime due to such conditions as routine inspection, maintenance, repairs, and turnaround; and

the reduction of capacity for unscheduled downtime due to such conditions as mechanical problems, repairs, and slowdowns.

Barrels Per Stream Day. The maximum number of barrels of input that a distillation facility can process within a 24-hour period when running at full capacity under optimal crude and product slate conditions with no allowance for downtime.

Benzene (C_6H_6). An aromatic hydrocarbon present in small proportion in some crude oils and made commercially from petroleum by the catalytic reforming of naphthenes in petroleum naphtha. Also made from coal in the manufacture of coke. Used as a solvent, in manufacturing detergents, synthetic fibers, and petrochemicals and as a component of high-octane gasoline.

Biomass-Based Diesel Fuel. Biodiesel and other renewable diesel fuel or diesel fuel blending components derived from biomass, but excluding renewable diesel fuel coprocessed with petroleum

feedstocks.

Blending Components. See *Motor or Aviation Gasoline Blending Components*.

Blending Plant. A facility which has no refining capability but is either capable of producing finished motor gasoline through mechanical blending or blends oxygenates with motor gasoline.

Bonded Petroleum Imports. Petroleum imported and entered into Customs bonded storage. These imports are not included in the import statistics until they are: (1) withdrawn from storage free of duty for use as fuel for vessels and aircraft engaged in international trade; or (2) withdrawn from storage with duty paid for domestic use.

BTX. The acronym for the commercial petroleum aromatics benzene, toluene, and xylene. See individual categories for definitions.

Bulk Station. A facility used primarily for the storage and/or marketing of petroleum products which has a total bulk storage capacity of less than 50,000 barrels and receives its petroleum products by tank car or truck.

Bulk Terminal. A facility used primarily for the storage and/or marketing of petroleum products which has a total bulk storage capacity of 50,000 barrels or more and/or receives petroleum products by tanker, barge, or pipeline.

Butane (C_4H_{10}). A normally gaseous straight-chain or branch-chain hydrocarbon extracted from natural gas or refinery gas streams. It includes normal butane and refinery-grade butane and is designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial butane.

Normal Butane (C_4H_{10}). A normally gaseous straight-chain hydrocarbon that is a colorless paraffinic gas which boils at a temperature of 31.1 degrees Fahrenheit and is extracted from natural gas or refinery gas streams.

Refinery-Grade Butane (C_4H_{10}). A refinery-produced stream that is composed predominantly of normal butane and/or isobutane and may also contain propane and/or natural gasoline. These streams may also contain significant levels of olefins and/or fluorides contamination.

Butylene (C_4H_8). An olefinic hydrocarbon recovered from refinery processes.

Captive Refinery Oxygenate Plants. Oxygenate production facilities located within or adjacent to a refinery complex.

Catalytic Cracking. The refining process of breaking down the larger, heavier, and more complex hydrocarbon molecules into simpler and lighter molecules. Catalytic cracking is accomplished by the use of a catalytic agent and is an effective process for increasing the yield of gasoline from crude oil. Catalytic cracking processes fresh feeds and recycled feeds.

Fresh Feeds. Crude oil or petroleum distillates which are being fed to processing units for the first time.

Recycled Feeds. Feeds that are continuously fed back for additional processing.

Catalytic Hydrocracking. A refining process that uses hydrogen and catalysts with relatively low temperatures and high pressures for converting middle boiling or residual material to high-octane gasoline, reformer charge stock, jet fuel, and/or high grade fuel oil. The process uses one or more catalysts, depending upon product output, and can handle high sulfur feedstocks without prior desulfurization.

Catalytic Hydrotreating. A refining process for treating petroleum fractions from atmospheric or vacuum distillation units (e.g., naphthas, middle distillates, reformer feeds, residual fuel oil, and heavy gas oil) and other petroleum (e.g., cat cracked naphtha, coker naphtha, gas oil, etc.) in the presence of catalysts and substantial quantities of hydrogen. Hydrotreating includes desulfurization, removal of substances (e.g., nitrogen compounds) that deactivate catalysts, conversion of olefins to paraffins to reduce gum formation in gasoline, and other processes to upgrade the quality of the fractions.

Catalytic Reforming. A refining process using controlled heat and pressure with catalysts to rearrange certain hydrocarbon molecules, thereby converting paraffinic and naphthenic type hydrocarbons (e.g., low-octane gasoline boiling range fractions) into petrochemical feedstocks and higher octane stocks suitable for blending into finished gasoline. Catalytic reforming is reported in two categories. They are:

Low Pressure. A processing unit operating at less than 225 pounds per square inch gauge (PSIG) measured at the outlet separator.

High Pressure. A processing unit operating at either equal to or greater than 225 pounds per square inch gauge (PSIG) measured at the outlet separator.

Charge Capacity. The input (feed) capacity of the refinery processing facilities.

Coal. A readily combustible black or brownish-black rock whose composition, including inherent moisture, consists of more than 50 percent by weight and more than 70 percent by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time.

Commercial Kerosene-Type Jet Fuel. See *Kerosene-Type Jet Fuel*.

Conventional Blendstock for Oxygenate Blending (CBOB). See *Motor Gasoline Blending Components*.

Conventional Gasoline. See *Motor Gasoline (Finished)*.

Crude Oil. A mixture of hydrocarbons that exists in liquid phase in natural underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Depending upon the characteristics of the crude stream, it may also include:

Small amounts of hydrocarbons that exist in gaseous phase in natural underground reservoirs but are liquid at atmospheric pressure after being recovered from oil well (casinghead) gas in lease separators and are subsequently commingled

with the crude stream without being separately measured. Lease condensate recovered as a liquid from natural gas wells in lease or field separation facilities and later mixed into the crude stream is also included;

Small amounts of nonhydrocarbons produced from oil, such as sulfur and various metals;

Drip gases, and liquid hydrocarbons produced from tar sands, oil sands, gilsonite, and oil shale.

Liquids produced at natural gas processing plants are excluded. Crude oil is refined to produce a wide array of petroleum products, including heating oils; gasoline, diesel and jet fuels; lubricants; asphalt; ethane, propane, and butane; and many other products used for their energy or chemical content.

Crude oil is considered as either domestic or foreign, according to the following:

Domestic. Crude oil produced in the United States or from its Outer continental shelf as defined in 43 USC 1331.

Foreign. Crude oil produced outside the United States. Imported Athabasca hydrocarbons (tar sands from Canada) are included.

Crude Oil, Refinery Receipts. Receipts of domestic and foreign crude oil at a refinery. Includes all crude oil in transit except crude oil in transit by pipeline. Foreign crude oil is reported as a receipt only after entry through customs. Crude oil of foreign origin held in bonded storage is excluded.

Crude Oil Losses. Represents the volume of crude oil reported by petroleum refineries as being lost in their operations. These losses are due to spills, contamination, fires, etc. as opposed to refinery processing losses.

Crude Oil Production. The volume of crude oil produced from oil reservoirs during given periods of time. The amount of such production for a given period is measured as volumes delivered from lease storage tanks (i.e., the point of custody transfer) to pipelines, trucks, or other media for transport to refineries or terminals with adjustments for (1) net differences between opening and closing lease inventories, and (2) basic sediment and water (BS&W).

Crude Oil Qualities. Refers to two properties of crude oil, the sulfur content and API gravity, which affect processing complexity and product characteristics.

Delayed Coking. A process by which heavier crude oil fractions can be thermally decomposed under conditions of elevated temperatures and pressure to produce a mixture of lighter oils and petroleum coke. The light oils can be processed further in other refinery units to meet product specifications. The coke can be used either as a fuel or in other applications such as the manufacturing of steel or aluminum.

Desulfurization. The removal of sulfur, as from molten metals, petroleum oil, or flue gases. Petroleum desulfurization is a process that removes sulfur and its compounds from various streams during the refining process. Desulfurization processes include catalytic hydrotreating and other chemical/physical processes such

as adsorption. Desulfurization processes vary based on the type of stream treated (e.g., naphtha, distillate, heavy gas oil, etc.) and the amount of sulfur removed (e.g., sulfur reduction to 10 ppm). See *Catalytic Hydrotreating*.

Disposition. The components of petroleum disposition are stock change, crude oil losses, refinery inputs, exports, and products supplied for domestic consumption.

Distillate Fuel Oil. A general classification for one of the petroleum fractions produced in conventional distillation operations. It includes diesel fuels and fuel oils. Products known as No. 1, No. 2, and No. 4 diesel fuel are used in on-highway diesel engines, such as those in trucks and automobiles, as well as off-highway engines, such as those in railroad locomotives and agricultural machinery. Products known as No. 1, No. 2, and No. 4 fuel oils are used primarily for space heating and electric power generation.

No. 1 Distillate. A light petroleum distillate that can be used as either a diesel fuel or a fuel oil.

No. 1 Diesel Fuel. A light distillate fuel oil that has a distillation temperature of 550 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 975. It is used in high speed diesel engines generally operated under frequent speed and load changes, such as those in city buses and similar vehicles. See *No. 1 Distillate*.

No. 1 Fuel Oil. A light distillate fuel oil that has distillation temperatures of 400 degrees Fahrenheit at the 10-percent recovery point and 550 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 396. It is used primarily as fuel for portable outdoor stoves and portable outdoor heaters. See *No. 1 Distillate*.

No. 2 Distillate. A petroleum distillate that can be used as either a diesel fuel or a fuel oil.

No. 2 Diesel Fuel. A distillate fuel oil that has a distillation temperature of 640 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 975. It is used in high-speed diesel engines that are generally operated under uniform speed and load conditions, such as those in railroad locomotives, trucks, and automobiles. See *No. 2 Distillate*.

Low Sulfur No. 2 Diesel Fuel. No. 2 diesel fuel that has a sulfur level no higher than 0.05 percent by weight. It is used primarily in motor vehicle diesel engines for on-highway use.

High Sulfur No. 2 Diesel Fuel. No. 2 diesel fuel that has a sulfur level above 0.05 percent by weight.

No. 2 Fuel Oil (Heating Oil). A distillate fuel oil that has a distillation temperature of 640 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 396. It is used in

atomizing type burners for domestic heating or for moderate capacity commercial/industrial burner units. See **No. 2 Distillate**.

No. 4 Fuel. A distillate fuel oil made by blending distillate fuel oil and residual fuel oil stocks. It conforms to ASTM Specification D 396 or Federal Specification VV-F-815C and is used extensively in industrial plants and in commercial burner installations that are not equipped with preheating facilities. It also includes No. 4 diesel fuel used for low- and medium-speed diesel engines and conforms to ASTM Specification D 975.

No. 4 Diesel Fuel. See **No. 4 Fuel**.

No. 4 Fuel Oil. See **No. 4 Fuel**.

Electricity (Purchased). Electricity purchased for refinery operations that is not produced within the refinery complex.

Ending Stocks. Primary stocks of crude oil and petroleum products held in storage as of 12 midnight on the last day of the month. Primary stocks include crude oil or petroleum products held in storage at (or in) leases, refineries, natural gas processing plants, pipelines, tank farms, and bulk terminals that can store at least 50,000 barrels of petroleum products or that can receive petroleum products by tanker, barge, or pipeline. Crude oil that is in-transit by water from Alaska, or that is stored on Federal leases or in the Strategic Petroleum Reserve is included. Primary Stocks exclude stocks of foreign origin that are held in bonded warehouse storage.

ETBE (Ethyl tertiary butyl ether) (CH₃)₃COC₂H₅. An oxygenate blend stock formed by the catalytic etherification of isobutylene with ethanol.

Ethane (C₂H₆). A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of - 127.48 degrees Fahrenheit. It is extracted from natural gas and refinery gas streams.

Ether. A generic term applied to a group of organic chemical compounds composed of carbon, hydrogen, and oxygen, characterized by an oxygen atom attached to two carbon atoms (e.g., methyl tertiary butyl ether).

Ethylene (C₂H₄). An olefinic hydrocarbon recovered from refinery processes or petrochemical processes. Ethylene is used as a petrochemical feedstock for numerous chemical applications and the production of consumer goods.

Exports. Shipments of crude oil and petroleum products from the 50 States and the District of Columbia to foreign countries, Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

Field Production. Represents crude oil production on leases, natural gas liquids production at natural gas processing plants, new supply of other hydrocarbons/oxygenates and motor gasoline blending components, and fuel ethanol blended into finished motor gasoline.

Flexicoking. A thermal cracking process which converts heavy

hydrocarbons such as crude oil, tar sands bitumen, and distillation residues into light hydrocarbons. Feedstocks can be any pumpable hydrocarbons including those containing high concentrations of sulfur and metals.

Fluid Coking. A thermal cracking process utilizing the fluidized-solids technique to remove carbon (coke) for continuous conversion of heavy, low-grade oils into lighter products.

Fresh Feed Input. Represents input of material (crude oil, unfinished oils, natural gas liquids, other hydrocarbons and oxygenates or finished products) to processing units at a refinery that is being processed (input) into a particular unit for the first time.

Examples:

(1.) Unfinished oils coming out of a crude oil distillation unit which are input into a catalytic cracking unit are considered fresh feed to the catalytic cracking unit.

(2.) Unfinished oils coming out of a catalytic cracking unit being looped back into the same catalytic cracking unit to be reprocessed are not considered fresh feed.

Fuel Ethanol (C₂H₅OH). An anhydrous alcohol (ethanol with less than 1% water) intended for gasoline blending as described in Oxygenates definition.

Fuels Solvent Deasphalting. A refining process for removing asphalt compounds from petroleum fractions, such as reduced crude oil. The recovered stream from this process is used to produce fuel products.

Gas Oil. A liquid petroleum distillate having a viscosity intermediate between that of kerosene and lubricating oil. It derives its name from having originally been used in the manufacture of illuminating gas. It is now used to produce distillate fuel oils and gasoline.

Gasohol. A blend of finished motor gasoline containing alcohol (generally ethanol but sometimes methanol) at a concentration of 10 percent or less by volume. Data on gasohol that has at least 2.7 percent oxygen, by weight, and is intended for sale inside carbon monoxide nonattainment areas are included in data on oxygenated gasoline. See **Oxygenates**.

Gasoline Blending Components. Naphthas which will be used for blending or compounding into finished aviation or motor gasoline (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, and xylene). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus.

Gasoline Treated as Blendstock (GTAB). See **Motor Gasoline Blending Components**.

Gross Input to Atmospheric Crude Oil Distillation Units. Total input to atmospheric crude oil distillation units. Includes all crude oil, lease condensate, natural gas plant liquids, unfinished oils, liquefied refinery gases, slop oils, and other liquid hydrocarbons produced from tar sands, gilsonite, and oil shale.

Heavy Gas Oil. Petroleum distillates with an approximate boiling

range from 651 degrees Fahrenheit to 1000 degrees Fahrenheit.

High-Sulfur Distillate Fuel Oil. Distillate fuel oil having sulfur content greater than 500 ppm.

Hydrogen. The lightest of all gases, occurring chiefly in combination with oxygen in water; exists also in acids, bases, alcohols, petroleum, and other hydrocarbons.

Idle Capacity. The component of operable capacity that is not in operation and not under active repair, but capable of being placed in operation within 30 days; and capacity not in operation but under active repair that can be completed within 90 days.

Imported Crude Oil Burned As Fuel. The amount of foreign crude oil burned as a fuel oil, usually as residual fuel oil, without being processed as such. Imported crude oil burned as fuel includes lease condensate and liquid hydrocarbons produced from tar sands, gilsonite, and oil shale.

Imports. Receipts of crude oil and petroleum products into the 50 States and the District of Columbia from foreign countries, Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

Isobutane (C_4H_{10}). A normally gaseous branch-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 10.9 degrees Fahrenheit. It is extracted from natural gas or refinery gas streams.

Isobutylene (C_4H_8). An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

Isohexane (C_6H_{14}). A saturated branch-chain hydrocarbon. It is a colorless liquid that boils at a temperature of 156.2 degrees Fahrenheit.

Isomerization. A refining process which alters the fundamental arrangement of atoms in the molecule without adding or removing anything from the original material. Used to convert normal butane into isobutane (C_4), an alkylation process feedstock, and normal pentane and hexane into isopentane (C_5) and isohexane (C_6), high-octane gasoline components.

Isopentane. See *Natural Gasoline and Isopentane*.

Kerosene. A light petroleum distillate that is used in space heaters, cook stoves, and water heaters and is suitable for use as a light source when burned in wick-fed lamps. Kerosene has a maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point, a final boiling point of 572 degrees Fahrenheit, and a minimum flash point of 100 degrees Fahrenheit. Included are No. 1-K and No. 2-K, the two grades recognized by ASTM Specification D 3699 as well as all other grades of kerosene called range or stove oil, which have properties similar to those of No. 1 fuel oil. See *Kerosene-Type Jet Fuel*.

Kerosene-Type Jet Fuel. A kerosene-based product having a maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point and a final maximum boiling point of 572 degrees Fahrenheit and meeting ASTM Specification D 1655 and Military Specifications MIL-T-5624P and MIL-T-83133D (Grades JP-5 and JP-8). It is used for commercial and military turbojet and turboprop aircraft engines.

Commercial. Kerosene-type jet fuel intended for use in commercial aircraft.

Military. Kerosene-type jet fuel intended for use in military aircraft.

Lease Condensate. A mixture consisting primarily of pentanes and heavier hydrocarbons which is recovered as a liquid from natural gas in lease separation facilities. This category excludes natural gas liquids, such as butane and propane, which are recovered at downstream natural gas processing plants or facilities. See *Natural Gas Liquids*.

Light Gas Oils. Liquid Petroleum distillates heavier than naphtha, with an approximate boiling range from 401 degrees Fahrenheit to 650 degrees Fahrenheit.

Liquefied Petroleum Gases (LPG). A group of hydrocarbon-based gases derived from crude oil refining or natural gas fractionation. They include: ethane, ethylene, propane, propylene, normal butane, butylene, isobutane, and isobutylene. For convenience of transportation, these gases are liquefied through pressurization.

Liquefied Refinery Gases (LRG). Liquefied petroleum gases fractionated from refinery or still gases. Through compression and/or refrigeration, they are retained in the liquid state. The reported categories are ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane/isobutylene. Excludes still gas.

Low-Sulfur Distillate Fuel Oil. Distillate fuel oil having sulfur content greater than 15 ppm to 500 ppm. Low sulfur distillate fuel oil also includes product with sulfur content equal to or less than 15 ppm if the product is intended for pipeline shipment and the pipeline has a sulfur specification below 15 ppm.

Lubricants. Substances used to reduce friction between bearing surfaces or as process materials either incorporated into other materials used as processing aids in the manufacture of other products, or used as carriers of other materials. Petroleum lubricants may be produced either from distillates or residues. Lubricants include all grades of lubricating oils from spindle oil to cylinder oil and those used in greases.

Merchant Oxygenate Plants. Oxygenate production facilities that are not associated with a petroleum refinery. Production from these facilities is sold under contract or on the spot market to refiners or other gasoline blenders.

Methanol (CH_3OH). A light, volatile alcohol intended for gasoline blending as described in Oxygenate definition.

Middle Distillates. A general classification of refined petroleum products that includes distillate fuel oil and kerosene.

Military Kerosene-Type Jet Fuel. See *Kerosene-Type Jet Fuel*.

Miscellaneous Products. Includes all finished products not classified elsewhere (e.g., petrolatum, lube refining byproducts (aromatic extracts and tars), absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feedstocks, and specialty oils). Note:

Beginning with January 2004 data, naphtha-type jet fuel is included in Miscellaneous Products.

Motor Gasoline (Finished). A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in spark-ignition engines. Motor gasoline, as defined in ASTM Specification D 4814 or Federal Specification VV-G-1690C, is characterized as having a boiling range of 122 to 158 degrees Fahrenheit at the 10 percent recovery point to 365 to 374 degrees Fahrenheit at the 90 percent recovery point. "Motor Gasoline" includes conventional gasoline; all types of oxygenated gasoline, including gasohol; and reformulated gasoline, but excludes aviation gasoline. Volumetric data on blending components, such as oxygenates, are not counted in data on finished motor gasoline until the blending components are blended into the gasoline. Note: E85 is included only in volumetric data on finished motor gasoline production and other components of product supplied.

Conventional Gasoline. Finished motor gasoline not included in the oxygenated or reformulated gasoline categories. Note: This category excludes reformulated gasoline blendstock for oxygenate blending (RBOB) as well as other blendstock.

Ed 55 and Lower. Finished conventional motor gasoline blended with a maximum of 55 volume percent denatured fuel ethanol.

Greater than Ed55. Finished conventional motor gasoline blended with denatured fuel ethanol where the volume percent of denatured fuel ethanol exceeds 55%.

OPRG. "Oxygenated Fuels Program Reformulated Gasoline" is reformulated gasoline which is intended for use in an oxygenated fuels program control area.

Oxygenated Gasoline (Including Gasohol). Oxygenated gasoline includes all finished motor gasoline, other than reformulated gasoline, having oxygen content of 2.0 percent or higher by weight. Gasohol containing a minimum 5.7 percent ethanol by volume is included in oxygenated gasoline. Oxygenated gasoline was reported as a separate product from January 1993 until December 2003 inclusive. Beginning with monthly data for January 2004, oxygenated gasoline is included in conventional gasoline. Historical data for oxygenated gasoline excluded Federal Oxygenated Program Reformulated Gasoline (OPRG). Historical oxygenated gasoline data also excluded other reformulated gasoline with a seasonal oxygen requirement regardless of season.

Reformulated Gasoline. Finished gasoline formulated for use in motor vehicles, the composition and properties of which meet the requirements of the reformulated gasoline regulations promulgated by the U.S. Environmental Protection Agency under Section 211(k) of the Clean Air Act. It includes gasoline produced to meet or exceed emissions performance and benzene content standards of federal-program reformulated gasoline even though the gasoline

may not meet all of the composition requirements (e.g., oxygen content) of federal-program reformulated gasoline. Note: This category includes Oxygenated Fuels Program Reformulated Gasoline (OPRG). Reformulated gasoline excludes Reformulated Blendstock for Oxygenate Blending (RBOB) and Gasoline Treated as Blendstock (GTAB).

Reformulated (Blended with Alcohol). Reformulated gasoline blended with an alcohol component (e.g., fuel ethanol) at a terminal or refinery to raise the oxygen content.

Reformulated (Blended with Ether). Reformulated gasoline blended with an ether component (e.g., methyl tertiary butyl ether) at a terminal or refinery to raise the oxygen content.

Reformulated (Non-Oxygenated). Reformulated gasoline without added ether or alcohol components.

Motor Gasoline Blending. Mechanical mixing of motor gasoline blending components, and oxygenates when required, to produce finished motor gasoline. Finished motor gasoline may be further mixed with other motor gasoline blending components or oxygenates, resulting in increased volumes of finished motor gasoline and/or changes in the formulation of finished motor gasoline (e.g., conventional motor gasoline mixed with MTBE to produce oxygenated motor gasoline).

Motor Gasoline Blending Components. Naphthas (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, xylene) used for blending or compounding into finished motor gasoline. These components include reformulated gasoline blendstock for oxygenate blending (RBOB) but exclude oxygenates (alcohols, ethers), butane, and pentanes plus. Note: Oxygenates are reported as individual components and are included in the total for other hydrocarbons, hydrogens, and oxygenates.

Conventional Blendstock for Oxygenate Blending (CBOB). Conventional gasoline blendstock intended for blending with oxygenates downstream of the refinery where it was produced. CBOB must become conventional gasoline after blending with oxygenates. Motor gasoline blending components that require blending other than with oxygenates to become finished conventional gasoline are reported as All Other Motor Gasoline Blending Components. Excludes reformulated blendstock for oxygenate blending (RBOB).

Gasoline Treated as Blendstock (GTAB). Non-certified Foreign Refinery gasoline classified by an importer as blendstock to be either blended or reclassified with respect to reformulated or conventional gasoline. GTAB was classified on EIA surveys as either reformulated or conventional based on emissions performance and the intended end use in data through the end of December 2009. Designation of GTAB as reformulated or conventional was discontinued beginning with data for January 2010. GTAB was reported as a single product beginning with data for January 2010. GTAB data for January 2010 and later months is presented as conventional

motor gasoline blending components when reported as a subset of motor gasoline blending components.

Reformulated Blendstock for Oxygenate Blending (RBOB). Specially produced reformulated gasoline blendstock intended for blending with oxygenates downstream of the refinery where it was produced. Includes RBOB used to meet requirements of the Federal reformulated gasoline program and other blendstock intended for blending with oxygenates to produce finished gasoline that meets or exceeds emissions performance requirements of Federal reformulated gasoline (e.g., California RBOB and Arizona RBOB). Excludes conventional gasoline blendstocks for oxygenate blending (CBOB).

RBOB for Blending with Alcohol. Motor gasoline blending components intended to be blended with an alcohol component (e.g., fuel ethanol) at a terminal or refinery to raise the oxygen content. RBOB product detail by type of oxygenate was discontinued effective with data for January 2010. Beginning with data for January 2010, RBOB was reported as a single product.

RBOB for Blending with Ether. Motor gasoline blending components intended to be blended with an ether component (e.g., methyl tertiary butyl ether) at a terminal or refinery to raise the oxygen content. RBOB product detail by type of oxygenate was discontinued effective with data for January 2010. Beginning with data for January 2010, RBOB was reported as a single product.

All Other Motor Gasoline Blending Components. Naphthas (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, xylene) used for blending or compounding into finished motor gasoline. Includes receipts and inputs of Gasoline Treated as Blendstock (GTAB). Excludes conventional blendstock for oxygenate blending (CBOB), reformulated blendstock for oxygenate blending, oxygenates (e.g., fuel ethanol and methyl tertiary butyl ether), butane, and pentanes plus.

MTBE (Methyl tertiary butyl ether) $(CH_3)_3COCH_3$. An ether intended for gasoline blending as described in Oxygenate definition.

Naphtha. A generic term applied to a petroleum fraction with an approximate boiling range between 122 degrees Fahrenheit and 400 degrees Fahrenheit.

Naphtha Less Than 401° F. See *Petrochemical Feedstocks*.

Naphtha-Type Jet Fuel. A fuel in the heavy naphtha boiling range having an average gravity of 52.8 degrees API, 20 to 90 percent distillation temperatures of 290 degrees to 470 degrees Fahrenheit, and meeting Military Specification MIL-T-5624L (Grade JP-4). It is used primarily for military turbojet and turboprop aircraft engines because it has a lower freeze point than other aviation fuels and meets engine requirements at high altitudes and speeds. Note: Beginning with January 2004 data, naphtha-type jet fuel is included in *Miscellaneous Products*.

Natural Gas. A gaseous mixture of hydrocarbon compounds, the primary one being **methane**.

Natural Gas Field Facility. A field facility designed to process natural gas produced from more than one lease for the purpose of recovering condensate from a stream of natural gas; however, some field facilities are designed to recover propane, normal butane, pentanes plus, etc., and to control the quality of natural gas to be marketed.

Natural Gas Liquids. Those hydrocarbons in natural gas that are separated from the gas as liquids through the process of absorption, condensation, adsorption, or other methods in gas processing or cycling plants. Generally such liquids consist of propane and heavier hydrocarbons and are commonly referred to as lease condensate, natural gasoline, and liquefied petroleum gases. Natural gas liquids include natural gas plant liquids (primarily ethane, propane, butane, and isobutane; see *Natural Gas Plant Liquids*) and lease condensate (primarily pentanes produced from natural gas at lease separators and field facilities; see *Lease Condensate*).

Natural Gas Plant Liquids. Those hydrocarbons in natural gas that are separated as liquids at natural gas processing plants, fractionating and cycling plants, and, in some instances, field facilities. Lease condensate is excluded. Products obtained include ethane; liquefied petroleum gases (propane, butanes, propane-butane mixtures, ethane-propane mixtures); isopentane; and other small quantities of finished products, such as motor gasoline, special naphthas, jet fuel, kerosene, and distillate fuel oil.

Natural Gas Processing Plant. Facilities designed to recover natural gas liquids from a stream of natural gas that may or may not have passed through lease separators and/or field separation facilities. These facilities control the quality of the natural gas to be marketed. Cycling plants are classified as gas processing plants.

Natural Gasoline and Isopentane. A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas, that meets vapor pressure, end-point, and other specifications for natural gasoline set by the Gas Processors Association. Includes isopentane which is a saturated branch-chain hydrocarbon, (C_5H_{12}) , obtained by fractionation of natural gasoline or isomerization of normal pentane.

Net Receipts. The difference between total movements into and total movements out of each PAD District by pipeline, tanker, and barge.

Normal Butane. See *Butane*.

OPEC. The Organization of the Petroleum Exporting Countries (OPEC) was founded in Baghdad, Iraq, with the signing of an agreement in September 1960 by five countries namely Islamic Republic of Iran, Iraq, Kuwait, Saudi Arabia and Venezuela. They were to become the Founder Members of the Organization. These countries were later joined by Qatar (1961), Indonesia (1962), Libya (1962), the United Arab Emirates (1967), Algeria (1969), Nigeria (1971), Ecuador (1973), Gabon (1975), Angola (2007), Equatorial Guinea (2017) and Congo (2018). Ecuador suspended its membership in December 1992, rejoined OPEC in October 2007, but decided to withdraw its membership of OPEC effective 1 January 2020.

Indonesia suspended its membership in January 2009, reactivated it again in January 2016, but decided to suspend its membership once more at the 171st Meeting of the OPEC Conference on 30 November 2016. Gabon terminated its membership in January 1995. However, it rejoined the Organization in July 2016. Qatar terminated its membership on 1 January 2019.

Operable Capacity. The amount of capacity that, at the beginning of the period, is in operation; not in operation and not under active repair, but capable of being placed in operation within 30 days; or not in operation but under active repair that can be completed within 90 days. Operable capacity is the sum of the operating and idle capacity and is measured in barrels per calendar day or barrels per stream day.

Operable Utilization Rate. Represents the utilization of the atmospheric crude oil distillation units. The rate is calculated by dividing the gross input to these units by the operable refining capacity of the units.

Operating Capacity. The component of operable capacity that is in operation at the beginning of the period.

Operating Utilization Rate. Represents the utilization of the atmospheric crude oil distillation units. The rate is calculated by dividing the gross input to these units by the operating refining capacity of the units.

Other Hydrocarbons. Materials received by a refinery and consumed as raw materials. Includes coal tar derivatives and gilsonite. Included hydrogen in data prior to January 2009 and excluded hydrogen thereafter. Excludes natural gas used for fuel or hydrogen feedstock.

Other Oils Equal To or Greater Than 401° F. See **Petrochemical Feedstocks**.

Other Oxygenates. Other aliphatic alcohols and aliphatic ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

Oxygenated Gasoline. See **Motor Gasoline (Finished)**.

Oxygenates. Substances which, when added to gasoline, increase the amount of oxygen in that gasoline blend. Fuel Ethanol, Methyl Tertiary Butyl Ether (MTBE), Ethyl Tertiary Butyl Ether (ETBE), and methanol are common oxygenates.

Fuel Ethanol. Blends of up to 10 percent by volume anhydrous ethanol (200 proof) (commonly referred to as the “gasohol waiver”).

Methanol. Blends of methanol and gasoline-grade tertiary butyl alcohol (GTBA) such that the total oxygen content does not exceed 3.5 percent by weight and the ratio of methanol to GTBA is less than or equal to 1. It is also specified that this blended fuel must meet ASTM volatility specifications (commonly referred to as the “ARCO” waiver).

Blends of up to 5.0 percent by volume methanol with a minimum of 2.5 percent by volume cosolvent alcohols having a carbon number of 4 or less (i.e., ethanol, propanol, butanol, and/or GTBA). The total oxygen must not exceed

3.7 percent by weight, and the blend must meet ASTM volatility specifications as well as phase separation and alcohol purity specifications (commonly referred to as the “DuPont” waiver).

MTBE (Methyl tertiary butyl ether). Blends up to 15.0 percent by volume MTBE which must meet the ASTM D4814 specifications. Blenders must take precautions that the blends are not used as base gasolines for other oxygenated blends (commonly referred to as the “Sun” waiver).

Pentanes Plus. A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas. Includes isopentane, natural gasoline, and plant condensate.

Persian Gulf. The countries that comprise the Persian Gulf are: Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates.

Petrochemical Feedstocks. Chemical feedstocks derived from petroleum principally for the manufacture of chemicals, synthetic rubber, and a variety of plastics. The categories reported are “Naphtha Less Than 401° F” and “Other Oils Equal To or Greater Than 401° F.”

Naphtha Less Than 401° F. A naphtha with a boiling range of less than 401 degrees Fahrenheit that is intended for use as a petrochemical feedstock.

Other Oils Equal To or Greater Than 401° F. Oils with a boiling range equal to or greater than 401 degrees Fahrenheit that are intended for use as a petrochemical feedstock.

Petroleum Administration for Defense (PAD) Districts. Geographic aggregations of the 50 States and the District of Columbia into five districts by the Petroleum Administration for Defense in 1950. These districts were originally defined during World War II for purposes of administering oil allocation.

Petroleum Coke. A residue high in carbon content and low in hydrogen that is the final product of thermal decomposition in the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion is 5 barrels (of 42 U.S. gallons each) per short ton. Coke from petroleum has a heating value of 6.024 million Btu per barrel.

Catalyst Coke. In many catalytic operations (e.g., catalytic cracking) carbon is deposited on the catalyst, thus deactivating the catalyst. The catalyst is reactivated by burning off the carbon, which is used as a fuel in the refining process. This carbon or coke is not recoverable in a concentrated form.

Marketable Coke. Those grades of coke produced in delayed or fluid cokers which may be recovered as relatively pure carbon. This “green” coke may be sold as is or further purified by calcining.

Petroleum Products. Petroleum products are obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, liquefied petroleum gases, pentanes plus, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet

fuel, kerosene, distillate fuel oil, residual fuel oil, petrochemical feedstocks, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

Pipeline (Petroleum). Crude oil and product pipelines used to transport crude oil and petroleum products respectively, (including interstate, intrastate, and intracompany pipelines) within the 50 States and the District of Columbia.

Plant Condensate. One of the natural gas liquids, mostly pentanes and heavier hydrocarbons, recovered and separated as liquids at gas inlet separators or scrubbers in processing plants.

Processing Gain. The volumetric amount by which total output is greater than input for a given period of time. This difference is due to the processing of crude oil into products which, in total, have a lower specific gravity than the crude oil processed.

Processing Loss. The volumetric amount by which total refinery output is less than input for a given period of time. This difference is due to the processing of crude oil into products which, in total, have a higher specific gravity than the crude oil processed.

Product Supplied, Crude Oil. Crude oil burned on leases and by pipelines as fuel.

Production Capacity. The maximum amount of product that can be produced from processing facilities.

Products Supplied. Approximately represents consumption of petroleum products because it measures the disappearance of these products from primary sources, i.e., refineries, natural gas processing plants, blending plants, pipelines, and bulk terminals. In general, product supplied of each product in any given period is computed as follows: field production, plus refinery production, plus imports, plus unaccounted for crude oil, (plus net receipts when calculated on a PAD District basis), minus stock change, minus crude oil losses, minus refinery inputs, minus exports.

Propane (C_3H_8). A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of - 43.67 degrees Fahrenheit. It is extracted from natural gas or refinery gas streams. It includes all products designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial propane and HD-5 propane.

Propylene (C_3H_6). An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

Propylene (C_3H_6) (nonfuel use). Propylene that is intended for use in nonfuel applications such as petrochemical manufacturing. Nonfuel use propylene includes chemical-grade propylene, polymer-grade propylene, and trace amounts of propane. Nonfuel use propylene also includes the propylene component of propane/propylene mixes where the propylene will be separated from the mix in a propane/propylene splitting process. Excluded is the propylene component of propane/propylene mixes where the propylene component of the mix is intended for sale into the fuel market.

Refinery. An installation that manufactures finished petroleum products from crude oil, unfinished oils, natural gas liquids, other hydrocarbons, and oxygenates.

Refinery-Grade Butane. See *Butane*.

Refinery Input, Crude Oil. Total crude oil (domestic plus foreign) input to crude oil distillation units and other refinery processing units (cokers, etc.).

Refinery Input, Total. The raw materials and intermediate materials processed at refineries to produce finished petroleum products. They include crude oil, products of natural gas processing plants, unfinished oils, other hydrocarbons and oxygenates, motor gasoline and aviation gasoline blending components and finished petroleum products.

Refinery Production. Petroleum products produced at a refinery or blending plant. Published production of these products equals refinery production minus refinery input. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month. Refinery production of unfinished oils, and motor and aviation gasoline blending components appear on a net basis under refinery input.

Refinery Yield. Represents the percent of finished product produced from input of crude oil, hydrogen, and other hydrocarbons, and net input of unfinished oils. Except for finished motor gasoline, finished aviation gasoline, and distillate fuel oil, EIA calculates refinery yield equal to net production of a finished petroleum product divided by the sum of input of crude oil, hydrogen, other hydrocarbons, and net input of unfinished oils. In the case of finished motor gasoline, subtract input of natural gas liquids, fuel ethanol, oxygenates, and net input of motor gasoline blending components from net production of finished motor gasoline and then divide by the sum of input of crude oil, hydrogen, other hydrocarbons, and net input of unfinished oils. In the case of finished aviation gasoline, subtract net input of aviation gasoline blending components from net production of finished aviation gasoline and then divide by the sum of input of crude oil, hydrogen, other hydrocarbons, and net input of unfinished oils. In the case of distillate fuel oil, subtract input of renewable fuels except fuel ethanol (including input of biodiesel, renewable diesel fuel, and other renewable fuels) from distillate fuel oil net production and then divide by the sum of input of crude oil, hydrogen, other hydrocarbons, and net input of unfinished oils. Prior to data for January 2009, EIA calculated refinery yields (except for finished motor gasoline) equal to finished product net production divided by the sum of input of crude oil and net input of unfinished oils. EIA calculated refinery yield of finished motor gasoline equal to net production of finished motor gasoline minus the sum of input of natural gas liquids, other hydrocarbons and oxygenates, and net input of motor gasoline blending components divided by the sum of input of crude oil and net input of unfinished oils.

Reformulated Blendstock for Oxygenate Blending (RBOB). See *Motor Gasoline Blending Components*.

Reformulated Gasoline. See *Motor Gasoline (Finished)*.

Renewable Fuels (Other). Fuels and fuel blending components, except biomass-based diesel fuel, renewable diesel fuel, and fuel ethanol, produced from renewable biomass.

Residual Fuel Oil. A general classification for the heavier oils, known as No. 5 and No. 6 fuel oils, that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations. It conforms to ASTM Specifications D 396 and D 975 and Federal Specification VV-F-815C. No. 5, a residual fuel oil of medium viscosity, is also known as Navy Special and is defined in Military Specification MIL-F-859E, including Amendment 2 (NATO Symbol F-770). It is used in steam-powered vessels in government service and inshore power plants. No. 6 fuel oil includes Bunker C fuel oil and is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes.

Residuum. Residue from crude oil after distilling off all but the heaviest components, with a boiling range greater than 1000 degrees Fahrenheit.

Road Oil. Any heavy petroleum oil, including residual asphaltic oil used as a dust palliative and surface treatment on roads and highways. It is generally produced in six grades from 0, the most liquid, to 5, the most viscous.

Shell Storage Capacity. The design capacity of a petroleum storage tank which is always greater than or equal to working storage capacity. Special Naphthas. All finished products within the naphtha boiling range that are used as paint thinners, cleaners, or solvents. These products are refined to a specified flash point. Special naphthas include all commercial hexane and cleaning solvents conforming to ASTM Specification D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline, or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks are excluded.

Steam (Purchased). Steam, purchased for use by a refinery, that was not generated from within the refinery complex.

Still Gas (Refinery Gas). Any form or mixture of gases produced in refineries by distillation, cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, normal butane, butylene, propane, propylene, etc. Still gas is used as a refinery fuel and a petrochemical feedstock. The conversion factor is 6 million BTU's per fuel oil equivalent barrel.

Stock Change. The difference between stocks at the beginning of the reporting period and stocks at the end of the reporting period. Note: A negative number indicates a decrease (i.e., a drawdown) in stocks and a positive number indicates an increase (i.e., a buildup) in stocks during the reporting period.

Strategic Petroleum Reserve (SPR). Petroleum stocks maintained by the Federal Government for use during periods of major supply interruption.

Sulfur. A yellowish nonmetallic element, sometimes known as "brimstone." It is present at various levels of concentration in many fossil fuels whose combustion releases sulfur compounds that are considered harmful to the environment. Some of the most commonly used fossil fuels are categorized according to their sulfur content, with lower sulfur fuels usually selling at a higher price. Note: No.

2 Distillate fuel is currently reported as having either a 0.05 percent or lower sulfur level for on-highway vehicle use or a greater than 0.05 percent sulfur level for off-highway use, home heating oil, and commercial and industrial uses. Residual fuel, regardless of use, is classified as having either no more than 1 percent sulfur or greater than 1 percent sulfur. Coal is also classified as being low-sulfur at concentrations of 1 percent or less or high-sulfur at concentrations greater than 1 percent.

Supply. The components of petroleum supply are field production, refinery production, imports, and net receipts when calculated on a PAD District basis.

TAME (Tertiary amyl methyl ether) $(CH_3)_2(C_2H_5)COCH_3$. An oxygenate blend stock formed by the catalytic etherification of isoamylene with methanol.

Tank Farm. An installation used by gathering and trunk pipeline companies, crude oil producers, and terminal operators (except refineries) to store crude oil.

Tanker and Barge. Vessels that transport crude oil or petroleum products. Data are reported for movements between PAD Districts; from a PAD District to the Panama Canal; or from the Panama Canal to a PAD District.

TBA (Tertiary butyl alcohol) $(CH_3)_3COH$. An alcohol primarily used as a chemical feedstock, a solvent or feedstock for isobutylene production for MTBE; produced as a co-product of propylene oxide production or by direct hydration of isobutylene.

Thermal Cracking. A refining process in which heat and pressure are used to break down, rearrange, or combine hydrocarbon molecules. Thermal cracking includes gas oil, visbreaking, fluid coking, delayed coking, and other thermal cracking processes (e.g., flexicoking). See individual categories for definition.

Toluene $(C_6H_5CH_3)$. Colorless liquid of the aromatic group of petroleum hydrocarbons, made by the catalytic reforming of petroleum naphthas containing methyl cyclohexane. A high-octane gasoline-blending agent, solvent, and chemical intermediate, base for TNT.

Ultra-Low Sulfur Distillate Fuel Oil. Distillate fuel oil having sulfur content of 15 ppm or lower. Ultra-low sulfur distillate fuel oil that will be shipped by pipeline must satisfy the sulfur specification of the shipping pipeline if the pipeline specification is below 15 ppm. Distillate fuel oil intended for pipeline shipment that fails to meet a pipeline sulfur specification that is below 15 ppm will be classified as low-sulfur distillate fuel oil.

Unaccounted for Crude Oil. Represents the arithmetic difference between the calculated supply and the calculated disposition of crude oil. The calculated supply is the sum of crude oil production plus imports minus changes in crude oil stocks. The calculated disposition of crude oil is the sum of crude oil input to refineries, crude oil exports, crude oil burned as fuel, and crude oil losses.

Unfinished Oils. All oils requiring further processing, except those requiring only mechanical blending. Unfinished oils are produced by partial refining of crude oil and include naphthas and lighter oils,

kerosene and light gas oils, heavy gas oils, and residuum.

Unfractionated Streams. Mixtures of unsegregated natural gas liquid components excluding, those in plant condensate. This product is extracted from natural gas.

United States. The United States is defined as the 50 States and the District of Columbia.

Vacuum Distillation. Distillation under reduced pressure (less the atmospheric) which lowers the boiling temperature of the liquid being distilled. This technique with its relatively low temperatures prevents cracking or decomposition of the charge stock.

Visbreaking. A thermal cracking process in which heavy atmospheric or vacuum-still bottoms are cracked at moderate temperatures to increase production of distillate products and reduce viscosity of the distillation residues.

Wax. A solid or semi-solid material at 77 degrees Fahrenheit consisting of a mixture of hydrocarbons obtained or derived from petroleum fractions, or through a Fischer-Tropsch type process, in

which the straight-chained paraffin series predominates. This includes all marketable wax, whether crude or refined, with a congealing point (ASTM D 938) between 80 (or 85) and 240 degrees Fahrenheit and a maximum oil content (ASTM D 3235) of 50 weight percent.

Working Storage Capacity. The difference in volume between the maximum safe fill capacity and the quantity below which pump suction is ineffective (bottoms).

Xylene ($C_6H_4(CH_3)_2$). Colorless liquid of the aromatic group of hydrocarbons made the catalytic reforming of certain naphthenic petroleum fractions. Used as high-octane motor and aviation gasoline blending agents, solvents, chemical intermediates. Isomers are metaxylene, orthoxylene, paraxylene.